

Facility ID: 1318544510 Issuance type: Title V Final Permit

This version of facility specific terms and conditions was converted from a database format to an HTML file during an upgrade of the Ohio EPA, Division of Air Pollution Control's permitting software. Every attempt has been made to convert the terms and conditions to look and substantively conform to the permit issued or being drafted in STARS. However, the format of the terms may vary slightly from the original. In addition, although it is not expected, there is a slight possibility that a term and condition may have been inadvertently "left out" of this reproduction during the conversion process. Therefore, if this version is to be used as a starting point in drafting a new version of a permit, it is imperative that the entire set of terms and conditions be reviewed to ensure they substantively mimic the issued permit. The official version of any permit issued final by Ohio EPA is kept in the Agency's Legal section. The Legal section may be contacted at (614) 644-3037.

In addition to the terms and conditions, hyperlinks have been inserted into the document so you may more readily access the section of the document you wish to review.

Finally, the term language under "Part III" and before "I. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

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Facility ID: 1318544510 Issuance type: Title V Final Permit

## Part II - Specific Facility Terms and Conditions

### a State and Federally Enforceable Section

1. The permittee is subject to the applicable emission limitation(s) and/or control measures, operational restrictions, monitoring and/or record keeping requirements, reporting requirements, testing requirements and the general and/or other requirements specified in 40 CFR Part 63, Subpart WWWW, in accordance with 40 CFR Parts 63.5780 through 63.5935, Tables 1 through 15, and Appendix A, which are included in the text of Attachment A hereto and are hereby incorporated into this permit as if fully rewritten.

Ordinarily, these requirements would be incorporated into Part II of this Title V permit; however, incorporating Subpart WWWW into Part II of this Title V permit was not practical due to technical incompatibilities and the limitations of the STARS program. In addition, numerous difficulties were encountered in attempting to copy and paste the Subpart's tables and/or equations into STARS format.

The following emissions units in this permit are subject to the aforementioned requirements:

L001, L002, P014, P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, P040, P042, P047, P049, P050, P051, P052, P053, P059, P060, P061, and P063.

2. The following insignificant emissions units are located at this facility:

T009 - Tank #9, 8,800 gallon storage tank, PTI #13-02307; and  
P022 - Sander #2, with a dust collector, PTI #13-02752.

Each insignificant emissions unit at this facility must comply with all applicable State and federal regulations, and well as any emission limitations and/or control requirements contained within the identified permit to install for the emissions unit. Insignificant emissions units listed above that are not subject to specific permit to install requirements are subject to one or more of the applicable requirements contained in the federally-approved versions of OAC Chapters 3745-17, 3745-18, and/or 3745-21.

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

### b State Only Enforceable Section

1. The following insignificant emissions units located at this facility are exempt from permit requirements because they are not subject to any applicable requirement (as defined in OAC rule 3745-77-01(H)) or because they meet the "de minimis" criteria established in OAC rule 3745-15-05:

B001 - Gas-fired Boiler;  
B002 - Gas-fired Boiler;  
T001 - 4,500 gallon storage tank;  
T002 - 4,500 gallon storage tank;  
T003 - 4,500 gallon storage tank;  
T004 - 6,000 gallon storage tank;  
T005 - 6,000 gallon storage tank;  
T006 - 6,000 gallon storage tank;  
T007 - 6,000 gallon storage tank;  
T008 - 6,000 gallon storage tank;  
P002 - R&D Lab Oven #1;  
P003 - R&D Lab Oven #2;  
P004 - R&D Lab Oven #3;  
P005 - R&D Lab Oven #4;  
P006 - #5 Henry Grieve model HA650 oven;  
P007 - R&D curing oven;  
P011 - Sander #1;  
P013 - Post cure Oven;  
P019 - Parts Finishing Sander and 530 dust collector;  
P021 - R&D BMC Mixer;  
Z003 - Tote Storage, cold room;  
Z004 - Lab Press;

## Z005 - Pultrusion Mixer &amp; Tote Staging;

Z006 - Pultrusion cut-off dust collector #6;  
 Z007 - Pultrusion cut-off dust collector #7;  
 Z008 - Pultrusion cut-off dust collector #8;  
 Z013 - Maintenance Area; and  
 Z014 - Tool Room.

## 2. The following emissions units are removed from service and are permanently shut down:

B003 - Sellers gas-fired Boiler;  
 P001 - Liquid and BMC Mixers (Split into P061 and P062.);  
 P002 - Grieve Henry model HA650 laboratory oven (R&D lab oven #1);  
 P003 - Grieve Henry model HA650 laboratory oven (R&D lab oven #2);  
 P004 - Grieve Henry model HA650 laboratory oven (R&D lab oven #3);  
 P005 - Grieve Henry model HA650 laboratory oven (R&D lab oven #4);  
 P006 - Grieve Henry model HA650 laboratory oven (R&D lab oven #5);  
 P007 - Grieve Henry model HA650 laboratory oven (R&D lab oven #6);  
 P008 - Grieve Henry model HA650 laboratory oven (R&D lab oven #7);  
 P009 - Grieve Henry model HA650 laboratory oven (R&D lab oven #8);  
 P010 - Grieve Henry model HA650 laboratory oven (R&D lab oven #9);  
 P012 - 2 Grieve Henry post cure batch ovens #2 & #3;  
 P015 - Multiple pultrusion presses (Split into emission units P026 - P040);  
 P020 - renamed as pultrusion press 28;  
 P016 - Fiber rod line #1, 2, 3 & Splicer (PTI #13-02447);  
 P017 - Cold room - Tote Tank cleaning, tool cleaning, tote fugitives (BMC storage) (Split into emission units L001, L002, and P063);  
 P018 - Multiple laminate press machines (Split into emission units P041 - P060);  
 P024 - Fiber Rod Line #4 (PTI #13-02752);  
 P031 - Pultrusion press (Pultrusion line 10);  
 P041 - Compression and transfer molding Press 2;  
 P043 - Compression and transfer molding Press 5;  
 P044 - Compression and transfer molding Press 7;  
 P045 - Compression and transfer molding Press 8;  
 P046 - Compression and transfer molding Press 9;  
 P048 - Compression and transfer molding Press 11;  
 P055 - Compression and transfer molding Press 23;  
 P057 - Compression and transfer molding Press 28;  
 P058 - Compression and transfer molding Press 29;  
 P062 - L600 Mixer;  
 Z001 - Laminate Press #50;  
 Z002 - renamed as emission unit P063, Tote Filling Station;  
 Z009 - Compression and Transfer Molding Press 20;  
 Z010 - R&D Pultrusion Line #1;  
 Z011 - R&D Pultrusion Line #2; and  
 Z015 - Pultrusion Press #6.

## 3. The permit to install for this emissions unit was evaluated based on the actual materials employed (typically coatings and cleanup materials) and the design parameters of the emissions unit's exhaust system, as specified by the permittee in the permit to install application. Ohio EPA's "Review of New Sources of Air Toxics Emissions" policy ("Air Toxics Policy") was applied for each toxic pollutant emitted by this emissions unit using data from the permit to install application and the SCREEN 3.0 model (or other Ohio EPA approved model). The predicted 1-hour maximum ground-level concentration from the use of the SCREEN 3.0 model was compared to the Maximum Acceptable Ground-Level Concentration (MAGLC).

The following summarizes the results of the modeling for the "worst case" pollutants:

## Pollutant: Styrene

TLV (ug/m3): 85,000  
 Total Maximum Hourly Emission Rate for all styrene emitting emissions units (lbs/hr): 26.71  
 Predicted 1 Hour Maximum Ground-Level Concentration (ug/m3): 1,984  
 MAGLC (ug/m3): 2,029

## Pollutant: Methyl Methacrylate

TLV (ug/m3): 204,700  
 Total Maximum Hourly Emission Rate for all methyl methacrylate emitting emissions units (lbs/hr): 21.17  
 Predicted 1 Hour Maximum Ground-Level Concentration (ug/m3): 2,176  
 MAGLC (ug/m3): 4,875

## Pollutant: Vinyl Toluene

TLV (ug/m3): 241,700  
 Total Maximum Hourly Emission Rate for all vinyl toluene emitting emissions units (lbs/hr): 34.39  
 Predicted 1 Hour Maximum Ground-Level Concentration (ug/m3): 2,309  
 MAGLC (ug/m3): 5,754

Physical changes to or changes in the method of operation of the emissions unit after its installation or modification could affect the parameters used to determine whether or not the "Air Toxics Policy" is satisfied. Consequently, prior to making a change that could impact such parameters, the permittee shall conduct an evaluation to determine that the "Air Toxics Policy" will still be satisfied. If, upon evaluation, the permittee determines that the "Air Toxics Policy" will not be satisfied, the permittee will not make the change. Changes that can affect the parameters used in applying the "Air Toxics Policy" include the following:

a. changes in the composition of the materials used (typically for coatings or cleanup materials), or the use of new materials, that would result in the emission of a compound with a lower Threshold Limit Value (TLV), as indicated in the most recent version of the handbook entitled "American Conference of Governmental Industrial Hygienists (ACGIH)," than the lowest TLV value previously modeled;

b. changes in the composition of the materials, or use of new materials, that would result in an increase in emissions of any pollutant with a listed TLV that was proposed in the application and modeled; and

c. physical changes to the emissions unit or its exhaust parameters (e.g., increased/ decreased exhaust flow, changes in stack height, changes in stack diameter, etc.).

d. changes in the aggregate styrene, methyl methacrylate, or vinyl toluene emissions in pounds per hour, not including fugitive emissions, vented to stack or stacks by group of emissions units, as detailed in the PTI, shall not be considered modifications provided the aggregate emissions generated are less than the modeled styrene, methyl methacrylate, or vinyl toluene emission rate, in pounds per hour, for each stack, as detailed in the PTI, and not is not a change as detailed in a, b, and c above.

If the permittee determines that the "Air Toxics Policy" will be satisfied for the above changes, the Ohio EPA will not consider the change(s) to be a "modification" under OAC rule 3745-31-01 solely due to the emissions of any type of toxic air contaminant not previously emitted, and a modification of the existing permit to install will not be required. If the change(s) is (are) defined as a modification under other provisions of the modification definition, then the permittee shall obtain a final permit to install prior to the change.

The permittee shall collect, record, and retain the following information when it conducts evaluations to determine that the changed emissions unit will still satisfy the "Air Toxics Policy":

a. a description of the parameters changed (composition of materials, new pollutants emitted, change in stack/exhaust parameters, etc.);

b. documentation of its evaluation and determination that the changed emissions unit still satisfies the "Air Toxics Policy"; and

c. when computer modeling is performed, a copy of the resulting computer model runs that show the results of the application of the "Air Toxics Policy" for the change.

The Ohio EPA will not consider shifts in production from one source to another to be a modification under rule 3734-31-01 as long as no physical changes or changes in the method of operation occur and as long as the following styrene emission limits for each stack are met:

Stack Emissions Unit Number Allowable Styrene Emission Rate (lbs/hr)

Stack 1 P028, P033, P034, P035, P036 9.032

Stack 2 P026, P027, P029, P030, P032 4.157

Stack 3 P023, P037, P038, P039, P040 6.477

Stack 4 L001, L002, P063 0.23

Stack 5 P014 0.6

Stack 6 P047, P049 0.82

Stack 7 P042, P050, P053 1.78

Stack 9 P052 0.32

Stack 11 P059 1.08

Stack 88 P051 0.57

Stack 64 & 68 P060 1.64

. Total 26.71

a. The permittee shall use the calculation methodologies established in the Monitoring and Record Keeping Section for determining the actual average hourly styrene emission rate for each emissions unit each day.

b. The permittee shall maintain daily records of the total actual average hourly styrene emission rate for each stack using the combined actual styrene emissions for the group of emissions units designated for each stack as identified above .

c. The permittee shall submit deviation (excursion) reports to the Cleveland Division of Air Quality for each day that the actual average hourly styrene emission rate for any stack exceeded the allowable styrene emission rate noted above for the stack. The deviation reports shall be submitted within 30 days after the exceedance occurs.

[Go to Part III for Emissions Unit L001](#)

[Go to Part III for Emissions Unit L002](#)

[Go to Part III for Emissions Unit P014](#)

[Go to Part III for Emissions Unit P023](#)

[Go to Part III for Emissions Unit P026](#)

[Go to Part III for Emissions Unit P027](#)

[Go to Part III for Emissions Unit P028](#)

[Go to Part III for Emissions Unit P029](#)

[Go to Part III for Emissions Unit P030](#)

[Go to Part III for Emissions Unit P032](#)

[Go to Part III for Emissions Unit P033](#)

[Go to Part III for Emissions Unit P034](#)

[Go to Part III for Emissions Unit P035](#)

[Go to Part III for Emissions Unit P036](#)

[Go to Part III for Emissions Unit P037](#)

[Go to Part III for Emissions Unit P038](#)

[Go to Part III for Emissions Unit P039](#)

[Go to Part III for Emissions Unit P040](#)

[Go to Part III for Emissions Unit P042](#)

[Go to Part III for Emissions Unit P047](#)

- [Go to Part III for Emissions Unit P049](#)
- [Go to Part III for Emissions Unit P050](#)
- [Go to Part III for Emissions Unit P051](#)
- [Go to Part III for Emissions Unit P052](#)
- [Go to Part III for Emissions Unit P053](#)
- [Go to Part III for Emissions Unit P059](#)
- [Go to Part III for Emissions Unit P060](#)
- [Go to Part III for Emissions Unit P061](#)
- [Go to Part III for Emissions Unit P063](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: L001 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
tote washer that uses a monomer mixture to clean resin totes	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	39.97 lbs of volatile organic compound (VOC) emissions/day (stack emissions)  7.29 tons/year of VOC emissions (stack emissions)  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(O)(2) and 40 CFR Part 63, Subpart WWWW.
	OAC rule 3745-21-09(O)(2) 40 CFR Part 63, Subpart WWWW	See Section A.I.2 below. See Section A.II below. The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The tote washer is not a conventional cold cleaning equipment, therefore, some requirements in the OAC rule 3745-21-09(O)(2) are not applicable to this emissions unit.
- b. This emissions unit does not employ an halogenated organic solvents. Therefore, this emissions unit is not subject to the applicable provisions of 40 CFR Part 63, Subpart T.
- c. The cold cleaner shall be equipped with a device for draining the cleaned parts; and if the solvent has a vapor pressure greater than 0.6 pound per square inch absolute, measured at 100 degrees Fahrenheit, the drainage facility shall be constructed internally so that parts are enclosed under the cover during drainage, unless an internal type drainage device cannot fit into the cleaning system.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. The cold cleaner shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the emissions unit:
  - a. provide a permanent, legible, conspicuous label, summarizing the operating requirements;

- b. store waste solvent in covered containers; and
- c. clean only materials that are neither porous nor absorbent.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall collect and record the following information each day for this emissions unit:
  - a. the total number of washes performed; and
  - b. the VOC emissions, in lbs, as calculated using the following equation:  

$$\text{VOC emissions} = (0.94 \text{ lb of VOC emissions/wash}^*) \times (\text{A.III.1.a, the total number of washes/day})$$

\* The emission factor of 0.94 lb of VOC emissions/wash was developed by the permittee. Should a more accurate emission factor be developed in the future, the permittee shall use it, provided the emission factor is mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.
2. The permittee shall maintain the following records in written or electronic form.
  - a. the types of solvents employed in the cold cleaner; and
  - b. the vapor pressure of each solvent, in pounds per square inch absolute (psia), measured at 100 degrees Fahrenheit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of the following:
  - a. all exceedances of the daily VOC emission limitation, and a record of what the actual VOC emissions were for each such day; and
  - b. all exceedances of the allowable vapor pressure for the solvent.
2. The quarterly deviation reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total VOC emissions, in tons, from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**V. Testing Requirements**

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 39.97 lbs/day of VOC emissions  

Applicable Compliance Method: The VOC emission limitation was established by the use of emission factors developed by the permittee and by the calculation method outlined in Section A.III.1.

Compliance with the VOC emission shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 7.29 tons/year of VOC emissions (stack emissions)  

Applicable Compliance Method: The annual VOC emission limitation was established by multiplying the daily VOC emission limitation (40 lbs of VOC emissions/day) by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual VOC emission limitation is ensured while compliance is maintained with the daily VOC emission limitation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: L001 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
tote washer that uses a monomer mixture to clean resin totes	None	None

**2. Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- 1. Air Toxics Policy Language

See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

- 1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: L002 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
fully enclosed, automated parts washer that utilizes a monomer mixture to wash tubes, parts and filters	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	47.90 lbs of volatile organic compounds (VOC) emissions/day (stack emissions)  8.74 tons of VOC emissions/yr (stack emissions)  The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-09(O)(2) and 40 CFR Part 63 Subpart WWWW.
	OAC rule 3745-21-09(O)(2) 40 CFR Part 63, Subpart WWWW	See Section A.I.2 below. See Sections A.I.2.c and A.I.1 below. The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The parts washer is not built as conventional cold cleaning equipment, therefore, some requirements in the OAC rule 3745-21-09(O)(2) are not applicable to this emissions unit.
- b. This emissions unit does not employ an halogenated organic solvents. Therefore, this emissions unit is not subject to the applicable provisions of 40 CFR Part 63, Subpart T.
- c. The cold cleaner shall be equipped with a device for draining the cleaned parts; and if the solvent has a vapor pressure greater than 0.6 pound per square inch absolute (psia), measured at 100 degrees Fahrenheit, the drainage facility shall be constructed internally so that parts are enclosed under the cover during drainage, unless an internal type drainage device cannot fit into the cleaning system.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

1. The cold cleaner shall be operated and maintained in accordance with the following practices to minimize solvent evaporation from the unit:
  - a. provide a permanent, legible, conspicuous label, summarizing the operating requirements;
  - b. store waste solvent in covered containers;
  - c. close the cover whenever parts are not being handled in the cleaner;
  - d. drain the cleaned parts until dripping ceases; and
  - e. clean only materials that are neither porous nor absorbent.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

- a. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  1.
    - a. the total number of washes performed/day; and
    - b. the VOC emissions, in lbs, as calculated using the following equation:  
 VOC emissions = (1.10 lbs of VOC emissions/wash\*) x (A.III.1.a, the total number of washes/day)

- \* The emission factor of 1.10 lbs of VOC emissions/wash was developed by the permittee. Should a more accurate emission factor be developed in the future, the permittee shall use it, provided the emission factor is mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.
2. The permittee shall maintain the following records in written or electronic form.
    - a. the types of solvents employed in the cold cleaner; and
    - b. the vapor pressure of each solvent, in pounds per square inch absolute (psia), measured at 100 degrees Fahrenheit.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of the following:
  - a. all exceedances of the daily VOC emission limitation, and a record of what the actual VOC emissions were for each such day; and
  - b. all exceedances of the allowable vapor pressure for the solvent.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total VOC emissions, in tons, from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 47.90 lbs of VOC emissions/day (stack emissions).
 

Applicable Compliance Method: The VOC emission limitation was established by the use of emission factors developed by the permittee and by the calculation method outlined in Section A.III.1.

Compliance with the daily VOC emission shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 8.74 tons of VOC emissions/yr (stack emissions)
 

Applicable Compliance Method: The annual VOC emission limitation was established by multiplying the daily VOC emission limitation (48 lbs of VOC emissions/day) by 365 days/year, and dividing by 2,000 lbs/ton. Therefore compliance with the annual VOC emission limitation is ensured while compliance is maintained with the daily VOC emission limitation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None

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**Facility ID: 1318544510 Issuance type: Title V Final Permit**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: L002 Issuance type: Title V Final Permit**

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
fully enclosed, automated parts washer that utilizes a monomer mixture to wash tubes, parts and filters	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P014 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

- I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
morehouse mixer contains two mix kettles with 78 cubic feet of volume that provide resin mixes for use in laminates, equipped with 700 acfm baghouse.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	1.67 lbs of organic compound (OC) emissions/hr, including cleanup material (stack emissions)  39.99 lbs of OC emissions/day, including OC emissions from the use of cleanup material (stack emissions)  7.30 tons of OC emissions/yr, including OC emissions from the use of cleanup material (stack emissions)  0.071 lb of particulate emissions (PE)/hr (stack emissions)  0.01 grain of PE/dscf (stack emissions)  0.31 ton of PE/yr (stack emissions)  There shall be no visible PE from the baghouse stack serving this emissions unit.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the emission limitation established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.
<b>2. Additional Terms and Conditions</b>		
a. The liquid organic material in the mix operations include styrene and methyl methacrylate which are photochemically reactive materials, as defined in OAC rule 3745-21-01(C)(5). Therefore, all of the OC emissions from this emissions unit count toward the hourly limit, including the OC emissions from any non-photochemically reactive materials used in the mix operations.		
b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio Environmental Protection Agency (Ohio EPA), through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. The permittee shall operate the baghouse particulate control system whenever dry filler is being added to this emissions unit.
2. The pressure drop across the baghouse shall be maintained within the range of 1.5 to 7.5 inches of water while the emissions unit is in operation.
3. The permittee shall use a closed feed system to charge non-liquid material and shall use covers over the mixing kettles.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the company identification for each liquid resin mix manufactured, and each photochemically reactive cleanup material employed;
  - b. the OC concentration of each liquid resin mix manufactured, in lbs/cubic ft;
  - c. the percent styrene of each liquid resin mix manufactured;

- d. the OC concentration of each cleaning monomer employed, in lbs/cubic ft;
  - e. the number of cleaning cycles conducted;
  - f. the total number of batches of liquid resin mix manufactured;
  - g. the total hours of operation;
  - h. the total OC emissions for all resin batches, in lbs  $[(f) \times (b) \times (\text{mixer volume, 78 cubic ft/batch}) \times (2 \text{ volume changes})]$ ;
  - i. the total styrene emissions for all resin batches, in lbs  $[(c) \times (f) \times (b) \times (\text{mixer volume, 78 cubic ft/batch}) \times (2 \text{ volume changes})]$ ;
  - j. the total OC emissions from all cleanup materials employed, in lbs  $[(d) \times (e) \times (\text{mixer volume, 78 cubic ft/batch}) \times (2 \text{ volume changes})]$ ;
  - k. the total OC emissions from all resin batches and cleanup materials, in lbs  $[(h) + (i)]$ ;
  - l. the average hourly OC emission rate, in lbs/hr (k/g); and
  - m. the average hourly styrene emission rate, in lbs/hr (i/g).
- 2. The permittee shall properly, operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual (s). The permittee shall record the pressure drop across the baghouse on a daily basis.
- 3. The permittee shall record, for each day, all periods of time during which the baghouse was not in operation when the emissions unit was in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that identify the following information:
  - a. all periods of time when the pressure drop across the baghouse did not comply with the allowable range; and
  - b. all exceedances of the hourly OC emission limitation, and what the calculated hourly OC emissions were for each exceedance.
- 2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
- 3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### V. Testing Requirements

- 1. Compliance with the emission limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 1.67 lbs/hr of OC emissions, including photochemically reactive cleanup material (stack emissions).
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee and the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

The permittee shall demonstrate compliance with the OC emission limitation based upon the results of emission testing conducted in accordance with Methods 1-4, 18 and 25 of 40 CFR Part 60, Appendix A.
  - b. Emission Limitation: 39.99 lbs of OC emissions/day, including OC emissions from the use of cleanup material (stack emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.30 tons of OC emissions/yr, including photochemically reactive cleanup material (stack emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton.

Therefore compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.

- d. Emission Limitation: There shall be no visible PE from the baghouse stack serving this emissions unit.

Applicable Compliance Method: If required, compliance shall be determined through visible PE observations performed in accordance with 40 CFR Part 60, Appendix A, Method 22 and the procedures specified in OAC rule 3745-17-03(B)(1).

- e. Emission Limitations: 0.071 lb of PE/hr; 0.01 of grain/dscf

Applicable Compliance Method: The hourly emission limitation was established by the following methodology:

$$\text{AHER} = (\text{BFR}) \times (\text{AV}) \times (\text{ST}/\text{AT}) \times (\text{BEF}) \times (\text{TI}) \times (\text{CONV}) = 0.071 \text{ lb PE/hr}$$

where:

AHER = maximum hourly emission rate (0.071 lb of PE/hr);  
 BFR = baghouse flow rate (700 scfm);  
 AV = the air variability factor (120%);  
 ST = standard temperature (530 degrees Rankine);  
 AT = actual temperature (530 degrees Rankine);  
 BEF = baghouse efficiency (0.010 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains).

The permittee shall demonstrate compliance with the PE limitations based upon the results of emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.

- f. Emission Limitation: 0.31 ton of PE/yr

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hours/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

2. The permittee shall conduct, or have conducted, emission testing to demonstrate compliance with the allowable PE and OC emission limitations.

- a. The emission testing shall be conducted within 1 year after permit issuance.
- b. The emission testing shall be conducted to demonstrate compliance with the hourly PE and OC emission limitations.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitations.

OC: Methods 1-4, 18 and/or 25 of 40 CFR Part 60, Appendix A  
 PE: Methods 1-5 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

- d. The test(s) shall be conducted while this emissions unit is operating at or near their maximum capacities, unless otherwise specified or approved by the Cleveland Department of Public Health, Division of Air Quality.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland Department of Public Health, Division of Air Quality refusal to accept the results of the emission test(s).

Personnel from the Cleveland Department of Public Health, Division of Air Quality and Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland Department of Public Health, Division of Air Quality within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P014 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
morehouse mixer contains two mix kettles with 78 cubic feet of volume that provide resin mixes for use in laminates, equipped with 700 acfm baghouse.	None	None

**2. Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

- 1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P023 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 44	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	3.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
		1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
		Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
		See Section A.1.2 below.
		The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-21-07(G)(2)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).	
OAC rule 3745-17-07(A)(1)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).	
OAC rule 3745-17-11(B)	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.	
40 CFR Part 63, Subpart WWWW		

**2. Additional Terms and Conditions**

- a. The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.

4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 3.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
  - d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
 

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
  - e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.
 

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
  - f. Emission Limitation: 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
 

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.354 \text{ lb of PE/hr}$$

where:

HER = hourly emission rate (0.354 lb of PE/hr);  
 DCFR = dust collector flow rate (3,414 dscfm);  
 AV = the air variability factor (121%);  
 DCEF = dust collector efficiency (0.01 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains).

The permittee shall demonstrate compliance with the PE emission limitation based upon the results of emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.
  - g. Emission Limitation: 1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
 

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.
2. The permittee shall conduct, or have conducted, emission testing to demonstrate compliance with the allowable PE limitation.
  - a. The emission testing shall be conducted within 1 year after permit issuance.

- b. The emission testing shall be conducted to demonstrate compliance with the hourly PE limitation.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitation.

PE: Methods 1-5 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

- d. The test(s) shall be conducted while all emissions units vented to dust collector #6 [i.e., P023, P037, P038, P039 and P040] are operating at or near their maximum capacities, unless otherwise specified or approved by the Cleveland Department of Public Health, Division of Air Quality.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland Department of Public Health, Division of Air Quality refusal to accept the results of the emission test(s).

Personnel from the Cleveland Department of Public Health, Division of Air Quality and Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland Department of Public Health, Division of Air Quality within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

- 1. None

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**Facility ID: 1318544510 Issuance type: Title V Final Permit**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P023 Issuance type: Title V Final Permit**

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 44	None	None

**2. Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
  - 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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**Facility ID: 1318544510 Issuance type: Title V Final Permit**

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P026 Issuance type: Title V Final Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 1.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)  40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)  7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)  2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)  0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)  1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

## 2. Additional Terms and Conditions

- a. The PE from emission units P026, P027, P029, P030, and P032 are vented to dust collector #8.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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### II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and

- e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
  4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
  - d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
 

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.  
 Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
  
- f. Applicable Compliance Method: The hourly PE limitation was established by the following methodology:  

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.268 \text{ lb of PE/hr}$$
 where:  
 HER = hourly emission rate (0.268 lb of PE/hr);  
 DCFR = dust collector flow rate (2,585 dscfm);  
 AV = the air variability factor (121%);  
 DCEF = dust collector efficiency (0.01 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains).  
 If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.
  
- g. Emission Limitation: 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)  
 Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P026 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 1.	None	None

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
  - 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

- 1. None

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**Facility ID: 1318544510 Issuance type: Title V Final Permit**

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P027 Issuance type: Title V Final Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 3.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)  40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)  7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)  2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)  0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The PE from emission units P026, P027, P029, P030, and P032 are vented to dust collector #8.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
- 2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];

- d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
  4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
  - d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation: 0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.268 \text{ lb of PE/hr}$$

where:

HER = hourly emission rate (0.268 lb of PE/hr);  
 DCFR = dust collector flow rate (2,585 dscfm);  
 AV = the air variability factor (121%);  
 DCEF = dust collector efficiency (0.01 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- g. Emission Limitation: 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P027 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 3.	None	None

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
  - 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

- 1. None

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**Facility ID: 1318544510 Issuance type: Title V Final Permit**

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P028 Issuance type: Title V Final Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<b><u>Operations, Property, and/or Equipment</u></b>	<b><u>Applicable Rules/Requirements</u></b>	<b><u>Applicable Emissions Limitations/Control Measures</u></b>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 28.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	2.50 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.I.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
- 2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;

- b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
- 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
- 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

**\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\***

#### IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
- 2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
- 3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
- 4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

**\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\***

#### V. Testing Requirements

- 1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.50 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.

- d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)  
  
Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.  
  
Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
- f. Emission Limitation: 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)  
  
Applicable Compliance Method: The hourly PE limitation was established by the following methodology:  
  
HER = (DCFR) x (AV) x (DCEF) x (TI) x (CONV) = 0.475 lb PE/hr  
  
where:  
  
HER = hourly emission rate (0.475 lb of PE/hr);  
DCFR = dust collector flow rate (4,584 dscfm);  
AV = the air variability factor (121%);  
DCEF = dust collector efficiency (0.01 grain/dscf);  
TI = time (60 minutes/hr); and  
CONV = conversion factor 1 lb/7,000 grains).  
  
If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.
- g. Emission Limitation: 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)  
  
Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P028 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 28.	None	None

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

- 1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P029 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 7.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)

2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

See Section A.1.2 below.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A)(1)

The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-11(B)

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The PE from emission units P026, P027, P029, P030, and P032 are vented to dust collector #8.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).

2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the

daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.

- d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation: 0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.268 \text{ lb of PE/hr}$$

where:

- HER = hourly emission rate (0.268 lb of PE/hr);
- DCFR = dust collector flow rate (2,585 dscfm);
- AV = the air variability factor (121%);
- DCEF = dust collector efficiency (0.01 grain/dscf);
- TI = time (60 minutes/hr); and
- CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- g. Emission Limitation: 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P029 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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number 8.	(fugitive emissions)  7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)  2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)  0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)  1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)  Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.  The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
OAC rule 3745-21-07(G)(2)	See Section A.1.2 below. The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

2. **Additional Terms and Conditions**

- a. The PE from emission units P026, P027, P029, P030, and P032 are vented to dust collector #8.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;

- j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
    - a. the volume of each cleanup material dispensed, in gallons;
    - b. the volume of each cleanup material returned, in gallons;
    - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
    - d. the OC content of each cleanup material employed, in lbs/gallon; and
    - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
  3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
  4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the hourly OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).  
Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
- d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)  
Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.  
Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
- f. Emission Limitation: 0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)  
Applicable Compliance Method: The hourly PE limitation was established by the following methodology:  
$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.268 \text{ lb PE/hr}$$
where:  
HER = hourly emission rate (0.268 lb of PE/hr);  
DCFR = dust collector flow rate (2,585 dscfm);  
AV = the air variability factor (121%);  
DCEF = dust collector efficiency (0.01 grain/dscf);  
TI = time (60 minutes/hr); and  
CONV = conversion factor 1 lb/7,000 grains).  
If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.
- g. Emission Limitation: 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)  
Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P030 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or

control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 8.	None	None

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P032 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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<p>pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 12.</p>	<p>OAC rule 3745-31-05(A)(3) (PTI 13-03893)</p>	<p>2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)</p> <p>40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)</p> <p>7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)</p> <p>2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)</p> <p>0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)</p> <p>1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)</p> <p>Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.</p>
	<p>OAC rule 3745-21-07(G)(2)</p>	<p>See Section A.1.2 below.</p> <p>The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
	<p>OAC rule 3745-17-07(A)(1)</p>	<p>The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>
	<p>OAC rule 3745-17-11(B)</p>	<p>The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>
	<p>40 CFR Part 63, Subpart WWWW</p>	<p>The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.</p>

**2. Additional Terms and Conditions**

- a. The PE from emission units P026, P027, P029, P030, and P032 are vented to dust collector #8.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];

- g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
- 2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
- 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
- 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
- 2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
- 3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
- 4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

- 1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
    - Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.
    - Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- b. Emission Limitation: 40 lbs OC emissions/day, from the pultrusion line (fugitive emissions)  
 Applicable Compliance Method: Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
- c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).  
 Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
- d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)  
 Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.  
 Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
- f. Emission Limitation: 0.268 lb of particulate emissions (PE)/hr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)  
 Applicable Compliance Method: The hourly PE limitation was established by the following methodology:  

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.268 \text{ lb of PE/hr}$$
 where:  
 HER = hourly emission rate (0.268 lb of PE/hr);  
 DCFR = dust collector flow rate (2,585 dscfm);  
 AV = the air variability factor (121%);  
 DCEF = dust collector efficiency (0.01 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains.  
 If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.
- g. Emission Limitation: 1.174 tons of PE/yr, from emissions units P026, P027, P029, P030 and P032 combined (stack emissions)  
 Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P032 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 12.	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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- VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P033 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

- I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or

control measures (if any) may be specified in narrative form following the table.

<b>Operations, Property, and/or Equipment</b>	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 29.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	2.50 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)
	OAC rule 3745-21-07(G)(2)	2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)
	OAC rule 3745-17-07(A)(1)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3). The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

2. **Additional Terms and Conditions**

- a. The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;

- j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
    - a. the volume of each cleanup material dispensed, in gallons;
    - b. the volume of each cleanup material returned, in gallons;
    - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
    - d. the OC content of each cleanup material employed, in lbs/gallon; and
    - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
  3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
  4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.50 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).  
Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
- d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)  
Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.  
Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
- f. Emission Limitation: 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)  
Applicable Compliance Method: The hourly PE limitation was established by the following methodology:  
$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.475 \text{ lb of PE/hr}$$
where:  
HER = hourly emission rate (0.475 lb of PE/hr);  
DCFR = dust collector flow rate (4,584 dscfm);  
AV = the air variability factor (121%);  
DCEF = dust collector efficiency (0.01 grain/dscf);  
TI = time (60 minutes/hr); and  
CONV = conversion factor 1 lb/7,000 grains).  
If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.
- g. Emission Limitation: 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)  
Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P033 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or

control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 29.	None	None

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P034 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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<p>pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 30.</p>	<p>OAC rule 3745-31-05(A)(3) (PTI 13-03893)</p>	<p>2.50 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)</p> <p>40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)</p> <p>7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)</p> <p>2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)</p> <p>0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)</p> <p>2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)</p> <p>Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.</p> <p>The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.</p>
	<p>OAC rule 3745-21-07(G)(2)</p>	<p>See Section A.1.2 below.</p> <p>The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).</p>
	<p>OAC rule 3745-17-07(A)(1)</p>	<p>The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>
	<p>OAC rule 3745-17-11(B)</p>	<p>The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).</p>
	<p>40 CFR Part 63, Subpart WWWW</p>	<p>The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.</p>

**2. Additional Terms and Conditions**

- a. The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];

- g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
- 2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
- 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
- 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
- 2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
- 3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
- 4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

- 1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.5 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
    - Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.
    - Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
- Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
- c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
- Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
- d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
- Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.
- Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
- f. Emission Limitation: 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)
- Applicable Compliance Method: The hourly PE limitation was established by the following methodology:
- $$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.475 \text{ lb of PE/hr}$$
- where:
- HER = hourly emission rate (0.475 lb of PE/hr);  
 DCFR = dust collector flow rate (4,584 dscfm);  
 AV = the air variability factor (121%);  
 DCEF = dust collector efficiency (0.01 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains).
- If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.
- g. Emission Limitation: 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)
- Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P034 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<b>Operations, Property, and/or Equipment</b>	<b>Applicable Rules/Requirements</b>	<b>Applicable Emissions Limitations/Control Measures</b>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 30.	None	None

2. **Additional Terms and Conditions**
  1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**V. Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P035 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or

control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 31.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	3.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)
	2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)	
	Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.	
	The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.	
	See Section A.1.2 below.	
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;

- e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
- 2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
- 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
- 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

- 1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
- 2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
- 3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
- 4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

- 1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 3.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
    - Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.

- d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation: 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.475 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.475 lb of PE/hr);  
DCFR = dust collector flow rate (4,584 dscfm);  
AV = the air variability factor (121%);  
DCEF = dust collector efficiency (0.01 grain/dscf);  
TI = time (60 minutes/hr); and  
CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- g. Emission Limitation: 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P035 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 31.	None	None

**2. Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P036 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 32.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	3.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)
		2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)
		Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
		See Section A.1.2 below.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

2. **Additional Terms and Conditions**

- a. The PE from emission units P028, P033, P034, P035 and P036 are vented to dust collector #7.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet

area/hr;

- d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
    - a. the volume of each cleanup material dispensed, in gallons;
    - b. the volume of each cleanup material returned, in gallons;
    - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
    - d. the OC content of each cleanup material employed, in lbs/gallon; and
    - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
  3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
  4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 3.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.

- d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

- f. Emission Limitation: 0.475 lb of particulate emissions (PE)/hr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.475 \text{ lb of PE/hr}$$

where:

HER = hourly emission rate (0.475 lb of PE/hr);  
 DCFR = dust collector flow rate (4,584 dscfm);  
 AV = the air variability factor (121%);  
 DCEF = dust collector efficiency (0.01 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains).

If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.

- g. Emission Limitation: 2.082 tons of PE/yr, from emissions units P028, P033, P034, P035 and P036 combined (stack emissions)

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P036 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 32.	None	None

**2. Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**V. Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None

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**Facility ID: 1318544510 Issuance type: Title V Final Permit**

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P037 Issuance type: Title V Final Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 40.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	3.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
		1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
		Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
		See Section A.1.2 below.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:

- a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;
  - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
  - d. the total duration of any visible emission incident; and
  - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 3.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
  - d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
 

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
  - e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.
 

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
  - f. Emission Limitation: 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
 

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.354 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.354 lb of PE/hr);  
 DCFR = dust collector flow rate (3,414 dscfm);  
 AV = the air variability factor (121%);  
 DCEF = dust collector efficiency (0.01 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains).

The permittee shall demonstrate compliance with the PE emission limitation based upon the results of emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.
  - g. Emission Limitation: 1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
 

Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.
2. The permittee shall conduct, or have conducted, emission testing to demonstrate compliance with the allowable PE limitation.
  - a. The emission testing shall be conducted within 1 year after permit issuance.
  - b. The emission testing shall be conducted to demonstrate compliance with the hourly PE limitation.
  - c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitation.
 

PE: Methods 1-5 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Cleveland Department of Public Health, Division of Air Quality.
  - d. The test(s) shall be conducted while all emissions units vented to dust collector #6 [i.e., P023, P037, P038, P039 and P040] are operating at or near their maximum capacities, unless otherwise specified or

approved by the Cleveland Department of Public Health, Division of Air Quality.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland Department of Public Health, Division of Air Quality refusal to accept the results of the emission test(s).

Personnel from the Cleveland Department of Public Health, Division of Air Quality and Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland Department of Public Health, Division of Air Quality within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P037 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 40.	None	None

2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P038 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 41	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	3.7 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)  40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)  7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)  2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)  0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)  1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)  Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

OAC rule 3745-21-07(G)(2)

See Section A.I.2 below.

The OC emission limitations specified by this rule are

OAC rule 3745-17-07(A)(1)	less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3). The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

2. **Additional Terms and Conditions**

- a. The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

III. **Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
- 2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
- 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
- 4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:

- a. the color of the emissions;
- b. whether the emissions are representative of normal operations;
- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 3.7 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the hourly OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
  - d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
 

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
  - e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.
 

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
  - f. Emission Limitation: 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
 

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$\text{HER} = (\text{DCFR}) \times (\text{AV}) \times (\text{DCEF}) \times (\text{TI}) \times (\text{CONV}) = 0.354 \text{ lb PE/hr}$$

where:

HER = hourly emission rate (0.354 lb of PE/hr);  
 DCFR = dust collector flow rate (3,414 dscfm);  
 AV = the air variability factor (121%);  
 DCEF = dust collector efficiency (0.01 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains).

The permittee shall demonstrate compliance with the PE emission limitation based upon the results of emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.

- g. Emission Limitation: 1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
- Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.
2. The permittee shall conduct, or have conducted, emission testing to demonstrate compliance with the allowable PE limitation.
- a. The emission testing shall be conducted within 1 year after permit issuance.
- b. The emission testing shall be conducted to demonstrate compliance with the hourly PE limitation.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitation.

PE: Methods 1-5 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

d. The test(s) shall be conducted while all emissions units vented to dust collector #6 [i.e., P023, P037, P038, P039 and P040] are operating at or near their maximum capacities, unless otherwise specified or approved by the Cleveland Department of Public Health, Division of Air Quality.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland Department of Public Health, Division of Air Quality refusal to accept the results of the emission test(s).

Personnel from the Cleveland Department of Public Health, Division of Air Quality and Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland Department of Public Health, Division of Air Quality within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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**Facility ID: 1318544510 Issuance type: Title V Final Permit**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P038 Issuance type: Title V Final Permit**

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 41.	None	None

**2. Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

- 1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P039 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 42.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
		1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
		Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.
	The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.	
	See Section A.1.2 below.	
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

2. **Additional Terms and Conditions**

- a. The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet

area/hr;

- d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
    - a. the volume of each cleanup material dispensed, in gallons;
    - b. the volume of each cleanup material returned, in gallons;
    - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
    - d. the OC content of each cleanup material employed, in lbs/gallon; and
    - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
  3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
  4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
    - a. the color of the emissions;
    - b. whether the emissions are representative of normal operations;
    - c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
    - d. the total duration of any visible emission incident; and
    - e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

- b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
- Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
- c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
- Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
- d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
- Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
- e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.
- Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
- f. Emission Limitation: 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
- Applicable Compliance Method: The hourly PE limitation was established by the following methodology:
- $$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.354 \text{ lb PE/hr}$$
- where:
- HER = hourly emission rate (0.354 lb of PE/hr);  
DCFR = dust collector flow rate (3,414 dscfm);  
AV = the air variability factor (121%);  
DCEF = dust collector efficiency (0.01 grain/dscf);  
TI = time (60 minutes/hr); and  
CONV = conversion factor 1 lb/7,000 grains).
- The permittee shall demonstrate compliance with the PE emission limitation based upon the results of emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.
- g. Emission Limitation: 1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
- Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.
2. The permittee shall conduct, or have conducted, emission testing to demonstrate compliance with the allowable PE limitation.
- a. The emission testing shall be conducted within 1 year after permit issuance.
- b. The emission testing shall be conducted to demonstrate compliance with the hourly PE limitation.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitation.
- PE: Methods 1-5 of 40 CFR Part 60, Appendix A
- Alternative U.S. EPA-approved test methods may be used with prior approval from the Cleveland Department of Public Health, Division of Air Quality.
- d. The test(s) shall be conducted while all emissions units vented to dust collector #6 [i.e., P023, P037, P038, P039 and P040] are operating at or near their maximum capacities, unless otherwise specified or approved by the Cleveland Department of Public Health, Division of Air Quality.
- Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test"

notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland Department of Public Health, Division of Air Quality refusal to accept the results of the emission test(s). Personnel from the Cleveland Department of Public Health, Division of Air Quality and Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland Department of Public Health, Division of Air Quality within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P039 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 42.	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. Reporting Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. Testing Requirements

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. Miscellaneous Requirements

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P040 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. Applicable Emissions Limitations and/or Control Requirements

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 43.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	2.0 lbs of organic compound (OC) emissions/hr, from the pultrusion line (fugitive emissions)
		40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
		7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions)
		2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
		0.354 lb of particulate emissions (PE)/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
		1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
		Visible PE from this emissions unit shall not exceed 5% opacity, as a 6-minute average, from any stack.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
		See Section A.1.2 below.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)(1)	The visible PE limitation specified by this rule is less

OAC rule 3745-17-11(B)

stringent than the visible PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

The PE limitation specified by this rule is less stringent than the PE limitation established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The PE from emission units P023, P037, P038, P039, and P040 are vented to dust collector #6.
- b. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the name of each type of pultrusion part;
  - b. the emission factor for each type of pultrusion part, in lbs of OC emissions/square foot of wet area/hr;
  - c. the styrene emission factor for each type of pultrusion part, in lbs of styrene emissions/square foot of wet area/hr;
  - d. the wet area for each type of pultrusion part, in square feet;
  - e. the OC emissions for each type of pultrusion part, in lbs [(b) x (d)];
  - f. the styrene emissions for each type of pultrusion part, in lbs [(c) x (d)];
  - g. the total OC emissions from all pultrusion parts, in lbs [summation of (e) for all pultrusion parts made];
  - h. the total styrene emissions from all pultrusion parts, in lbs [summation of (f) for all pultrusion parts made];
  - i. the total number of hours this emissions unit was in operation;
  - j. the average hourly OC emission rate, in lbs/hr (g/i); and
  - k. the average hourly styrene emission rate, in lbs/hr (h/i).
2. The permittee shall maintain monthly records of the following information for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].
4. The permittee shall perform weekly checks, when the emissions unit is in operation and when the weather conditions allow, for any visible PE from the stack serving this emissions unit. The presence or absence of any visible emissions shall be noted in an operations log. If visible emissions are observed, the permittee shall also note the following in the operations log:
  - a. the color of the emissions;
  - b. whether the emissions are representative of normal operations;

- c. if the emissions are not representative of normal operations, the cause of the abnormal emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

If the weekly checks show visible emissions that are representative of normal operation for 12 consecutive operating weeks, the required frequency of visible emissions checks may be reduced to monthly. If a subsequent check indicates abnormal visible emissions, the frequency of emissions checks shall revert to weekly until such time there are 12 consecutive operating weeks of normal visible emissions.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit semiannual written reports that (a) identify all days during which any visible PE were observed from the stack serving this emissions unit and (b) describe any corrective actions taken to eliminate the visible particulate emissions. These reports shall be submitted to the Cleveland DAQ by January 31 and July 31 of each year and shall cover the previous 6-month period.
4. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from all the pultrusion parts made by this emissions unit and from cleanup material employed from all pultrusion lines) for the previous calendar year, in tons. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.0 lbs of OC emissions/hr, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the hourly OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the pultrusion line (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, from the pultrusion line (fugitive emissions).
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
  - d. Emission Limitation: 2.4 tons of OC emissions/yr, from all cleanup material employed for emissions units P023, P026, P027, P028, P029, P030, P032, P033, P034, P035, P036, P037, P038, P039, and P040 combined (fugitive emissions)
 

Applicable Compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.
  - e. Emission Limitation: Visible PE shall not exceed 5% opacity, as a 6-minute average, from any stack.
 

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.
  - f. Emission Limitation: 0.354 lb of PE/hr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
 

Applicable Compliance Method: The hourly PE limitation was established by the following methodology:

$$HER = (DCFR) \times (AV) \times (DCEF) \times (TI) \times (CONV) = 0.354 \text{ lb of PE/hr}$$

where:

HER = hourly emission rate (0.354 lb of PE/hr);  
 DCFR = dust collector flow rate (3,414 dscfm);  
 AV = the air variability factor (121%);  
 DCEF = dust collector efficiency (0.01 grain/dscf);  
 TI = time (60 minutes/hr); and  
 CONV = conversion factor 1 lb/7,000 grains).

The permittee shall demonstrate compliance with the PE emission limitation based upon the results of emission testing conducted in accordance with Methods 1-5 of 40 CFR Part 60, Appendix A.

- g. Emission Limitation: 1.550 tons of PE/yr, from emissions units P023, P037, P038, P039 and P040 combined (stack emissions)
- Applicable Compliance Method: The annual PE limitation was established by multiplying the hourly PE limitation by the maximum operating schedule of 8,760 hrs/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual PE limitation is ensured while compliance with the hourly PE limitation is maintained.
2. The permittee shall conduct, or have conducted, emission testing to demonstrate compliance with the allowable PE limitation.
- a. The emission testing shall be conducted within 1 year after permit issuance.
- b. The emission testing shall be conducted to demonstrate compliance with the hourly PE limitation.
- c. The following test methods shall be employed to demonstrate compliance with the allowable mass emission limitation.

PE: Methods 1-5 of 40 CFR Part 60, Appendix A

Alternative U.S. EPA-approved test methods may be used with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

d. The test(s) shall be conducted while all emissions units vented to dust collector #6 [i.e., P023, P037, P038, P039 and P040] are operating at or near their maximum capacities, unless otherwise specified or approved by the Cleveland Department of Public Health, Division of Air Quality.

Not later than 30 days prior to the proposed test date(s), the permittee shall submit an "Intent to Test" notification to the Ohio EPA, Southwest District Office. The "Intent to Test" notification shall describe in detail the proposed test methods and procedures, the emissions unit operating parameters, the time(s) and date(s) of the test(s), and the person(s) who will be conducting the test(s). Failure to submit such notification for review and approval prior to the test(s) may result in the Cleveland Department of Public Health, Division of Air Quality refusal to accept the results of the emission test(s).

Personnel from the Cleveland Department of Public Health, Division of Air Quality and Ohio EPA shall be permitted to witness the test(s), examine the testing equipment, and acquire data and information necessary to ensure that the operation of the emissions unit and the testing procedures provide a valid characterization of the emissions from the emissions unit and/or the performance of the control equipment.

A comprehensive written report on the results of the emission test(s) shall be signed by the person or persons responsible for the tests and submitted to the Cleveland Department of Public Health, Division of Air Quality within 30 days following completion of the test(s). The permittee may request additional time for the submittal of the written report, where warranted, with prior approval from the Cleveland Department of Public Health, Division of Air Quality.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P040 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
pultrusion press with a bath section, heated die and curing section, and a cut-off saw, with PE vented to dust collector (fabric filter) system. Company ID is pultrusion line number 43.	None	None

**2. Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

**Facility ID: 1318544510 Issuance type: Title V Final Permit**

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P042 Issuance type: Title V Final Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the

applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminated press with manual resin spreader. Company ID is laminate Press #4.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	1.0 lb of organic compound (OC) emissions/hr from the laminate press (fugitive emissions)
		4.38 lbs of OC emissions/yr, from the laminate press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

2. **Additional Terms and Conditions**

- a. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
- the company identification of each liquid resin mix received for processing;
  - company identification of the OC emission factor (EF) for each liquid resin mix processed;
  - company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
  - the total hours of operation;
  - the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
  - the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
  - the average hourly OC emission rate, in lbs (e/d); and
  - the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
- the volume of each cleanup material dispensed, in gallons;
  - the volume of each cleanup material returned, in gallons;
  - the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - the OC content of each cleanup material employed, in lbs/gallon; and
  - the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).

3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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#### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### V. Testing Requirements

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 4.38 lbs of OC emissions/yr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the hourly OC emission limitation.
  - c. Emission Limitation: 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
 

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

#### VI. Miscellaneous Requirements

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P042 Issuance type: Title V Final Permit

#### B. State Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

#### I. Applicable Emissions Limitations and/or Control Requirements

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminated press with manual resin spreader. Company ID is laminate Press #4.	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

- II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

- III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

- IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

- V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

- VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P047 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

- I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
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laminated press with automated resin spreader. Company ID is laminate press #10. (PTI 13-03893)

OAC rule 3745-31-05(A)(3)

OAC rule 3745-21-07(G)(2)

40 CFR Part 63, Subpart WWWW

#### Measures

1.0 lb of organic compound (OC) emissions/hr, from the laminate press (fugitive emissions)

4.38 lbs of OC emissions/yr, from the laminate press (fugitive emissions)

0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

## 2. Additional Terms and Conditions

- a. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

### II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the company identification of each liquid resin mix received for processing;
  - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
  - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
  - d. the total hours of operation;
  - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
  - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
  - g. the average hourly OC emission rate, in lbs (e/d); and
  - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 4.38 lbs of OC emissions/yr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the hourly OC emission limitation.
  - c. Emission Limitation: 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
 

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

**Facility ID: 1318544510 Issuance type: Title V Final Permit**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P047 Issuance type: Title V Final Permit**

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminated press with automated resin spreader. Company ID is laminate press #10.	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. **Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P049 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminated press with manual resin spreader. Company ID is laminate press #12.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	1.0 lb of organic compound (OC) emissions/hr, from the laminate press (fugitive emissions)  4.38 lbs of OC emissions/yr, from the laminate press

(fugitive emissions)

0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the company identification of each liquid resin mix received for processing;
  - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
  - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
  - d. the total hours of operation;
  - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
  - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
  - g. the average hourly OC emission rate, in lbs (e/d); and
  - h. the average hourly styrene emission rate, in lbs (f/d).
- 2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
- 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 4.38 lbs of OC emissions/yr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the hourly OC emission limitation.
  - c. Emission Limitation: 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
 

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P049 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminate press with manual resin spreader.	None	None

- Company ID is laminate press #12.
- 2. **Additional Terms and Conditions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language

- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

Part III - Terms and Conditions for Emissions Units

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P050 Issuance type: Title V Final Permit

A. State and Federally Enforceable Section

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminate press with manual resin spreader. Company ID is laminate press #15.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	1.0 lb of organic compound (OC) emissions/hr, from the laminate press (fugitive emissions)
		4.38 tons of OC emissions/yr, from the laminate press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047,

P049, P050, P051, P052, P053, P059, and P060 combined.

The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.

OAC rule 3745-21-07(G)(2)

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW

The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

- 1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the company identification of each liquid resin mix received for processing;
  - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
  - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
  - d. the total hours of operation;
  - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
  - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
  - g. the average hourly OC emission rate, in lbs (e/d); and
  - h. the average hourly styrene emission rate, in lbs (f/d).
- 2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
- 3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

- 1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.

2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 4.38 tons of OC emissions/yr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the hourly OC emission limitation.
  - c. Emission Limitation: 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
 

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P050 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminate press with manual resin spreader. Company ID is laminate press #15.	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
  1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**VI. Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P051 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminated press with manual resin spreader. Company ID is laminated press #16.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	1.50 lbs of organic compound (OC) emissions/hr, from the laminated press (fugitive emissions)  6.57 tons of OC emissions/yr, from the laminated press (fugitive emissions)  0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.

The requirements of this rule also include compliance

OAC rule 3745-21-07(G)(2)

with the requirements of 40 CFR Part 63, Subpart WWWW.

40 CFR Part 63, Subpart WWWW

The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3). The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

**2. Additional Terms and Conditions**

- a. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the company identification of each liquid resin mix received for processing;
  - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
  - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
  - d. the total hours of operation;
  - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
  - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
  - g. the average hourly OC emission rate, in lbs (e/d); and
  - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC

emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 1.50 lbs of OC emissions/hr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 6.57 tons of OC emissions/yr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the hourly OC emission limitation.
  - c. Emission Limitation: 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
 

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P051 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminate press with manual resin spreader. Company ID is laminate press #16.	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
  - 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

- 1. None

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**Facility ID: 1318544510 Issuance type: Title V Final Permit**

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P052 Issuance type: Title V Final Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Laminate press with manual resin spreader. Company ID is Laminate Press #17.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	1.0 lb of organic compound (OC) emissions/hr, from the laminate press (fugitive emissions)
		4.38 tons of OC emissions/yr, from the laminate press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWW.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations

40 CFR Part 63, Subpart WWWW

established pursuant to OAC rule 3745-31-05(A)(3).  
The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

## 2. Additional Terms and Conditions

- a. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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### II. Operational Restrictions

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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### III. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the company identification of each liquid resin mix received for processing;
  - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
  - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
  - d. the total hours of operation;
  - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
  - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
  - g. the average hourly OC emission rate, in lbs (e/d); and
  - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed).
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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### IV. Reporting Requirements

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 4.38 tons of OC emissions/yr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the hourly OC emission limitation.
  - c. Emission Limitation: 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
 

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P052 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
Laminate press with manual resin spreader. Company ID is Laminate Press #17.	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P053 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminated press with manual resin spreader. Company ID is laminated press #18.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	1.0 lb of organic compound (OC) emissions/hr, from the laminated press (fugitive emissions)
		4.38 tons of OC emissions/yr, from the laminated press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production)

as specified in Attachment A of this permit.

2. **Additional Terms and Conditions**

- a. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the company identification of each liquid resin mix received for processing;
  - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
  - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
  - d. the total hours of operation;
  - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
  - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
  - g. the average hourly OC emission rate, in lbs (e/d); and
  - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 1.0 lb of OC emissions/hr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 4.38 tons of OC emissions/yr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/yr, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the hourly OC emission limitation.
  - c. Emission Limitation: 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
 

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P053 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminate press with manual resin spreader. Company ID is laminate press #18.	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

- 1. None

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**Facility ID: 1318544510 Issuance type: Title V Final Permit**

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P059 Issuance type: Title V Final Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminated press with automated resin spreader. Company ID is laminated press #48.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	2.0 lbs of organic compound (OC) emissions/hr, from the laminated press (fugitive emissions)
		40 lbs of OC emissions/day, from the laminated press (fugitive emissions)
		7.3 tons of OC emissions/yr, from the laminated press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production)

as specified in Attachment A of this permit.

2. **Additional Terms and Conditions**

- a. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the company identification of each liquid resin mix received for processing;
  - b. company identification of the OC emission factor (EF) for each liquid resin mix processed;
  - c. company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
  - d. the total hours of operation;
  - e. the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
  - f. the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
  - g. the average hourly OC emission rate, in lbs (e/d); and
  - h. the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
  - a. the volume of each cleanup material dispensed, in gallons;
  - b. the volume of each cleanup material returned, in gallons;
  - c. the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - d. the OC content of each cleanup material employed, in lbs/gallon; and
  - e. the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. **Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.0 lbs of OC emissions/hr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the laminate press (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
  - d. Emission Limitation: 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
 

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

**Facility ID: 1318544510 Issuance type: Title V Final Permit**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P059 Issuance type: Title V Final Permit**

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminate press with automated resin spreader. Company ID is laminate press #48.	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

III. **Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
  - 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

- 1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P060 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminated press with automated resin spreader. Company ID is laminate press #49.	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	2.75 lbs of organic compound (OC) emissions/hr, from the laminated press (fugitive emissions)
		40 lbs of OC emissions/day, from the laminated press (fugitive emissions)
		7.3 tons of OC emissions/yr, from the laminated press (fugitive emissions)
		0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWW.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule are less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).

40 CFR Part 63, Subpart WWWW The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

2. **Additional Terms and Conditions**

- a. The OC emission factors used to calculate the OC emissions were established by the permittee. Should more accurate emission factors be developed in the future, the permittee shall use them, provided the emission factors are mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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II. **Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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III. **Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
- the company identification of each liquid resin mix received for processing;
  - company identification of the OC emission factor (EF) for each liquid resin mix processed;
  - company identification of the styrene emission factor (SEF) for each liquid resin mix processed;
  - the total hours of operation;
  - the total OC emissions from all liquid resin mixes employed, in lbs [summation of ((EF, in lbs of OC emissions/hr) x (d)) for each liquid resin mix];
  - the total styrene emissions from all liquid resin mixes employed, in lbs [summation of ((SEF, in lbs of styrene emissions/hr) x (d)) for each resin mix];
  - the average hourly OC emission rate, in lbs (e/d); and
  - the average hourly styrene emission rate, in lbs (f/d).
2. The permittee shall maintain monthly records of the following information for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined:
- the volume of each cleanup material dispensed, in gallons;
  - the volume of each cleanup material returned, in gallons;
  - the volume of each evaporated cleanup material, in gallons. This shall be calculated by subtracting the volume of each returned cleanup material from the volume of each dispensed cleanup material [(a) - (b)];
  - the OC content of each cleanup material employed, in lbs/gallon; and
  - the OC emissions from all cleanup materials employed, in lbs [the summation of (c) x (d) for all cleanup material employed].
3. The permittee shall maintain annual records of the total OC emissions from all cleanup material employed for the calendar year, in tons [summation of A.III.2.e for all months of the calendar year and divided by 2,000 lbs/ton].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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IV. **Reporting Requirements**

- The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly and/or daily OC emission limitations for this emissions unit were exceeded, and what the hourly and daily OC emissions were for each such day.
- The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
- The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions (i.e., from both the laminate product and from all cleanup material employed) from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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V. **Testing Requirements**

1. Compliance with the emissions limitations specified in Section A.I.1 shall be determined in accordance with the following methods:
  - a. Emission Limitation: 2.75 lbs of OC emissions/hr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The OC emission limitation was established by the use of emission factors developed by the permittee through laboratory bench scale testing and by the calculation method outlined in Section A.III.1.

Compliance with the OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - b. Emission Limitation: 40 lbs of OC emissions/day, from the laminate press (fugitive emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 7.3 tons of OC emissions/yr, for the laminate press (fugitive emissions)
 

Applicable Compliance Method: The annual OC emission limitation was established by multiplying the daily OC emission limitation from the pultrusion line by 365 days/year, and dividing by 2,000 lbs/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance is maintained with the daily OC emission limitation.
  - d. Emission Limitation: 0.324 ton of OC emissions/yr, from all cleanup material employed for emission units P042, P047, P049, P050, P051, P052, P053, P059, and P060 combined.
 

Applicable compliance Method: Compliance with the annual OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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VI. **Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P060 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
laminate press with automated resin spreader. Company ID is laminate press #49.	None	None
<b>2. Additional Terms and Conditions</b>		
1. None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
  - 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

- 1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

**Facility ID: 1318544510 Issuance type: Title V Final Permit**

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

**Facility ID: 1318544510 Emissions Unit ID: P061 Issuance type: Title V Final Permit**

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
shar mixer sytem, equipped with a baghouse	OAC rule 3745-21-07(G)(2)	8.0 lbs of organic compound (OC) emissions/hr, including OC emissions from the use of cleanup material, (stack emissions)
	OAC rule 3745-17-07(A)(1)	40.0 lbs of OC emissions/day, including OC emissions from the use of cleanup material, (stack emissions)
	OAC rule 3745-17-11(B)	Visible particulate emissions (PE) shall not exceed 20% opacity, as a 6-minute average, except as specified by rule. 4.10 lbs of PE/hr (emission limitation derived from Table 1 of OAC rule 3745-17-11)

**2. Additional Terms and Conditions**

- a. The shar mixer serves as a backup mixer for the morehouse mixer (P014) and is employed only when the morehouse mixer is out of service. All emissions from the shar mixer are vented to the same baghouse unit as employed by the morehouse mixer.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. The permittee shall operate the baghouse particulate control system whenever dry filler is being added to this emissions unit.
2. The pressure drop across the baghouse shall be maintained within the range of 1.5 to 7.5 inches of water while the emissions unit is in operation.
3. The permittee shall use a closed feed system to charge non-liquid material and shall use covers over the mixing kettles.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
  - a. the company identification for each liquid resin mix manufactured, and each photochemically reactive cleanup material employed;
  - b. the number of pounds of each liquid resin mix manufactured;
  - c. the OC concentration of each liquid resin mix manufactured, in lbs/cubic ft;
  - d. the total number of batches of each liquid resin mix manufactured;
  - e. the volume of each photochemically reactive cleanup material dispensed, in gallons;
  - f. the volume of each photochemically reactive cleanup material returned, in gallons;
  - g. the volume of each evaporated photochemically reactive cleanup material, which is estimated by subtracting the volume of returned photochemically reactive cleanup material from the volume of dispensed photochemically reactive cleanup material, in gallons;
  - h. the OC content of each photochemically reactive cleanup material, in lbs/gallon;
  - i. the total hours of operation;
  - j. the total OC emissions for all resin batches, in lbs [(d) x (c) x (mixer volume, 78 cubic ft/batch) x (2 volume changes)];
  - k. the total OC emissions from all cleanup materials employed, in lbs [the summation of (g) x (h) for all cleanup material employed];
  - l. the total OC emissions from all resin batches and cleanup materials, in lbs [(j) + (k)]; and
  - m. the average hourly OC emission rate, in lbs/hr (l/i).
2. The permittee shall properly, operate and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be calibrated, operated and maintained in accordance with the manufacturer's recommendations, instructions and operating manual (s). The permittee shall record the pressure drop across the baghouse on a daily basis.
3. The permittee shall record, for each day, all periods of time during which the baghouse was not in operation when the emissions unit was in operation.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

1. The permittee shall submit quarterly deviation (excursion) reports that identify the following information:
  - a. all periods of time when the pressure drop across the baghouse did not comply with the allowable range; and
  - b. all exceedances of the hourly OC emission limitation, and what the calculated hourly OC emissions were for each exceedance.
2. The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
3. The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.
4. Quarterly exceedance reports for weekly pressure drop monitoring.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

1. Compliance with the emission limitations specified in Section A.I.1 shall be determined by the following methods:
  - a. Emission Limitation: 8.0 lbs of OC emissions/hr, including OC emissions from the use of cleanup material (stack emissions)
 

Applicable Compliance Method: Compliance with the hourly OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.

If required, the permittee shall demonstrate compliance with the hourly OC emission limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-4, 18 and 25, as appropriate.
  - b. Emission Limitation: 40.0 lbs of OC emissions/day, including OC emissions from the use of cleanup material (stack emissions)
 

Applicable Compliance Method: Compliance with the daily OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - c. Emission Limitation: 4.10 lbs of PE/hr
 

Applicable Compliance Method: If required, the permittee shall demonstrate compliance with the hourly PE limitation through emission tests performed in accordance with 40 CFR Part 60, Appendix A, Methods 1-5, as appropriate.
  - c. Emission Limitation: Visible PE shall not exceed 20% opacity, as a 6-minute average, except as specified by rule.
 

Applicable Compliance Method: If required, compliance shall be determined through visible emissions observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

1. None

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Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P061 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
shar mixer sytem, equipped with a baghouse	None	None

2. **Additional Terms and Conditions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

II. **Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

III. **Monitoring and/or Record Keeping Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

IV. **Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

V. **Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

VI. **Miscellaneous Requirements**

- 1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

**Part III - Terms and Conditions for Emissions Units**

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P063 Issuance type: Title V Final Permit

**A. State and Federally Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

I. **Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
cold room tote filling station	OAC rule 3745-31-05(A)(3) (PTI 13-03893)	1.0 lb of organic compound (OC) emissions/hr (fugitive emissions)
		4.38 tons of OC emissions/yr (fugitive emissions)
		The requirements of this rule also include compliance with the requirements of 40 CFR Part 63, Subpart WWWW.
	OAC rule 3745-21-07(G)(2)	The OC emission limitations specified by this rule is less stringent than the OC emission limitations established pursuant to OAC rule 3745-31-05(A)(3).
	40 CFR Part 63, Subpart WWWW	The permittee shall comply with the applicable requirements of 40 CFR Part 63, Subpart WWWW (National Emission Standards for Hazardous Air Pollutants: Reinforced Plastic Composites Production) as specified in Attachment A of this permit.

- 2. **Additional Terms and Conditions**

- (a) None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

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**II. Operational Restrictions**

1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

1. The permittee shall maintain and record the following information for each day when this emissions unit is in operation:
- the types of liquid resin mixes employed in the tote filling;
  - the OC content of each liquid resin mix, in lbs of OC emissions/tote filled;
  - the total number of totes filled;
  - the total number of hours this emissions unit was in operation;
  - the total OC emissions, in lbs [summation of (b) x (c) for each tote filled]; and
  - the average hourly OC emission rate, in lbs [e/d].

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

- The permittee shall submit quarterly deviation (excursion) reports that include an identification of each day during which the hourly OC emission limitation for this emissions unit was exceeded, and what the hourly OC emissions were for each such day.
- The quarterly deviation (excursion) reports shall be submitted in accordance with paragraph A.1.c.ii of the General Terms and Conditions of this permit.
- The permittee shall submit annual reports to the Cleveland Division of Air Quality that specify the total OC emissions, in tons, from this emissions unit for the previous calendar year. The reports shall be submitted by April 15 of each year. This reporting requirement may be satisfied by including and identifying the specific emission data for this emissions unit in the annual Fee Emission Reports.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

- Compliance with the emission limitations specified in Section A.1.1 shall be determined in accordance with the following methods:
  - Emission Limitation: 1.0 lb of OC emissions/hr  
  
Applicable Compliance Method: The hourly OC emission limitation was established by the following methodology:  
  
hourly OC emissions = (0.21 lb of OC emissions/tote filled\*) x (totes filled/day) x (1day/hours of operation)  
  
\* The OC emission factor was established by the permittee. Should a more accurate emission factor be developed in the future, the permittee shall use it provided the emission factor is mutually agreeable between the Ohio EPA, through the Cleveland DAQ, and Glastic Corporation South Euclid Facility.  
  
Compliance with the hourly OC emission limitation shall be determined by the record keeping requirements specified in Section A.III.1.
  - Emission Limitation: 4.38 tons of OC emissions/yr  
  
Applicable Compliance Method: The annual OC emission limitation was established by multiplying the hourly OC emission limitation by 8,760 hrs/year, and dividing by 2,000 pounds/ton. Therefore, compliance with the annual OC emission limitation is ensured while compliance with the hourly OC emissions limitation is maintained.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

1. None

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION\*\*\*

Facility ID: 1318544510 Issuance type: Title V Final Permit

[Go to the top of this document](#)

Facility ID: 1318544510 Emissions Unit ID: P063 Issuance type: Title V Final Permit

**B. State Enforceable Section**

The following emissions unit terms and conditions are federally enforceable with the exception of those listed below which are enforceable under state law only.

- 1. None.

**I. Applicable Emissions Limitations and/or Control Requirements**

- 1. The specific operation(s), property, and/or equipment which constitute this emissions unit are listed in the following table along with the applicable rules and/or requirements and with the applicable emissions limitations and/or control measures. Emissions from this unit shall not exceed the listed limitations, and the listed control measures shall be employed. Additional applicable emissions limitations and/or control measures (if any) may be specified in narrative form following the table.

	<u>Operations, Property, and/or Equipment</u>	<u>Applicable Rules/Requirements</u>	<u>Applicable Emissions Limitations/Control Measures</u>
2.	<b>Additional Terms and Conditions</b>		
1.	cold room tote filling station	None	None
1.	None		

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**II. Operational Restrictions**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**III. Monitoring and/or Record Keeping Requirements**

- a. Air Toxics Policy Language
- 1. See Part II, Specific Facility Terms and Conditions, State Only Enforceable Section, Section B.3.

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**IV. Reporting Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**V. Testing Requirements**

- 1. None

[Go to the top of this document](#)

[Go to the top of Part III for this Emissions Unit](#)

\*\*\*THIS IS NOT AN OFFICIAL VERSION OF THE PERMIT. SEE PAGE 1 FOR ADDITIONAL INFORMATION.\*\*\*

**VI. Miscellaneous Requirements**

- 1. None