

Facility ID: 0575010183 Issuance type: Final State Permit To Operate

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 II" and before "A. Applicable Emissions Limitations..." has been added to aid in document conversion, and was not part of the original issued permit.

- [Go to Part II for Emissions Unit N002](#)
- [Go to Part II for Emissions Unit P017](#)
- [Go to Part II for Emissions Unit P018](#)
- [Go to Part II for Emissions Unit P020](#)
- [Go to Part II for Emissions Unit P021](#)
- [Go to Part II for Emissions Unit P022](#)
- [Go to Part II for Emissions Unit P024](#)

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

Facility ID: 0575010183 Emissions Unit ID: N002 Issuance type: Final State Permit To Operate

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

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
12 MMBTU/hr Pyrolysis Furnace	OAC rule 3745-31-05(A)(3)	The particulate emissions (PE) and PM10 from this emissions unit shall not exceed 0.20 lbs per 100 pounds of refuse processed. The emissions from natural gas and refuse combustion in this emissions unit shall not exceed the following: 1.18 lb/hr and 5.15 tons/yr nitrogen oxides (NOx) 0.99 lb/hr and 4.33 ton/yr carbon monoxide (CO) 0.14 lb/hr and 0.39 ton/yr filterable particulate emissions (PE) 0.14 lb/hr and 0.39 ton/yr PM10 0.01 lb/hr and 0.03 ton/yr sulfur dioxide (SO2) 0.06 lb/hr and 0.28 ton/yr VOC Compliance with the requirements of this rule also include compliance with the requirements of OAC rules 3745-17-07(A) See A.2.a and A.2.b.
	OAC rule 3745-17-07(A)	Visible PE emissions from this emission unit is controlled by shall not exceed 20% opacity, as a 6-minute average.
	OAC rule 3745-17-09(B)	The particulate emissions (PE) and PM10 from this emissions unit shall not exceed 0.20 lbs per 100 pounds of refuse processed.

2. **Additional Terms and Conditions**
 - (a) The above hourly emission limitations for under Section A.1. are established to reflect potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.

B. Operational Restrictions

1. The permittee shall burn only natural gas and/or propane as fuel in this emissions unit.

C. Monitoring and/or Record Keeping Requirements

1. For each day during which the permittee burns fuel other than natural gas or propane in this emissions unit, the

permittee shall maintain a record of the type and quantity of fuel burned.

D. Reporting Requirements

1. The permittee shall notify the Director (the Ohio EPA, Southwest District Office) of any record showing the use of a fuel other than natural gas or propane in this emissions unit. The notification shall include a copy of such record and shall be sent to the Director (the Ohio EPA, Southwest District Office) within 30 days following the end of the calendar month.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitations:

1.18 lb/hr and 5.15 tons/yr nitrogen oxides (NO_x);
0.99 lb/hr and 4.33 ton/yr carbon monoxide (CO);
0.14 lb/hr and 0.39 ton/yr filterable particulate emissions (PE);
0.14 lb/hr and 0.39 ton/yr PM₁₀;
0.01 lb/hr and 0.03 ton/yr sulfur dioxide (SO₂); and
0.06 lb/hr and 0.28 ton/yr VOC.

Applicable Compliance Method:

The permittee may demonstrate compliance with the hourly allowable emission limitations above by multiplying the maximum hourly natural gas consumption rate by the appropriate emission factor from USEPA's AP-42 and allowable particulate emission rate of OAC rule 3745-17-09(B), for incineration of refuse.

If required, the permittee shall demonstrate compliance with the hourly allowable emission limitations above based on the results of emission testing conducted in accordance with the following Methods:

- i. for NO_x, Methods 1 - 4 and 7 of 40 CFR Part 60, Appendix A;
- ii. for CO, Methods 1 - 4 and 10 of 40 CFR Part 60, Appendix A;
- iii. for PE, Methods 1 - 5 of 40 CFR Part 60, Appendix A;
- iv. for PM₁₀, Methods 201 and 202 of 40 CFR Part 60, Appendix A;
- v. for SO₂, Methods 1 - 4 and 10 of 40 CFR Part 60, Appendix A; and
- vi. for VOC, Methods 18, 25, or 25A, as appropriate, of 40 CFR Part 60, Appendix A.

Compliance with the annual allowable emission limitations above shall be ensured as long as compliance with the hourly allowable emission limitations is maintained (the annual allowable limitations were determined by multiplying the hourly allowable limitations by 8760, and then dividing by 2000).
Emission Limitation:

Visible PE from any stack shall not exceed 20 percent opacity, as a six-minute average, except as specified by rule.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None

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

Facility ID: 0575010183 Emissions Unit ID: P017 Issuance type: Final State Permit To Operate

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

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
ZSK-58, extruder line w/ particulate controls	OAC rule 3745-31-05(A)(3)	<p>The organic compound (OC) emissions from the extrusion operation of this emissions unit shall not exceed 0.31 lbs per hour nor 1.36 tons per year.</p> <p>The particulate emissions (PE) and PM10 from this emissions unit shall not exceed 0.10 lbs per hour nor 0.44 tons per year.</p> <p>Visible emissions from the stacks shall not exceed 5% opacity.</p> <p>The facility-wide use of cleanup materials shall not exceed 183 gallons per rolling 12-month rolling period.</p> <p>The facility-wide OC emissions from the use of cleanup materials shall not exceed 0.6 tons per rolling 12-month period.</p> <p>The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).</p> <p>This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.</p>
	OAC rule 3745-21-07(G)	<p>See A.2.a and A.2.b.</p> <p>The limitations specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-07(A)	<p>The visible emission limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).</p>
	OAC rule 3745-17-11(B)	<p>The PE limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).</p>

2. Additional Terms and Conditions

- (a) The hourly emission limitations for PE, 0.11 pound, and OC, 0.31 pounds, are established to reflect potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.
The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).

The use of photochemically reactive materials, as defined in OAC rule 3745-21-01 (C)(5), in this emissions unit is prohibited. Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, Ohio EPA, Southwest District Office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emissions limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

- 1. This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.
- 2. The organic compound (OC) content of the cleanup materials employed at this facility shall not exceed 6.3 pounds per gallon, as employed.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain the following monthly records on facility-wide use of cleanup materials:
 - a. the amount of cleanup employed, in gallons;
 - b. the volatile organic compound content of cleanup material, in pounds per gallon;
 - c. the OC emissions from the use of cleanup material, in tons ((“a” x “b”)/2000); and
 - d. the rolling, 12-month total OC emitted from the use of cleanup materials, in tons (the total OC emitted, in tons, for the current month (“c”) plus the total amount of OC emissions for the 11 previous calendar months).
- 2. The pressure drop across the fabric filter system shall be maintained within the range of 1 to 7 inches of water while the emissions unit is in operation.

The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record in a log, the pressure drop across the baghouse on weekly basis.

3. The permittee shall perform weekly checks on stacks and/or vents that are involved with emissions from raw material handling. 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 date and time the weekly check was made;
 - b. the visible emission record sheet;
 - c. the color of the emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification when pressure drop across the fabric filter system was not maintained within the range of 1 to 7 inches of water while the emissions unit is in operation;
 - b. an identification when the facility-wide OC emissions from the use of cleanup materials exceeds 0.58 tons per rolling 12-month period; and
 - c. an identification visible emission reading from any stacks and/or vents that are involved with emissions from raw material handling, when the emissions unit is in operation, that exceeds the allowable 5% opacity.
2. The deviation (excursion) reports shall be submitted as quarterly reports specified in Part I, General Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

0.31 lb OC/hr from extrusion operation

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = (HPR/2000) \times EEF$$

where:

HER= Hourly Emission Rate, lbs/hr;

HPR = maximum hourly production rate, in lbs (2,950 lbs/hr, from Advanced Composites', Emission Activity Category form);

EEF = extruder emission factor, in lbs/1000 lbs processed (0.21 lbs/ton, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999").

Emission Limitation:

0.10 lb PE/hr

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = [(HPR/1000) \times (REF + EEF)]$$

where:

HER= Hourly Emission Rate, lbs/hr;

HPR = maximum hourly production rate, in lbs (2,950 lbs/hr, from Advanced Composites', Emission Activity Category form);

REF = raw material handling emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1); and

EEF = extruder emission factor, in lbs/1000 lbs processed (0.0303 lbs/1000, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999").

Emission Limitation:

Visible particulate emissions from the baghouse(s) stack(s) shall not exceed 5% percent opacity as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

- 1. None

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

Facility ID: 0575010183 Emissions Unit ID: P018 Issuance type: Final State Permit To Operate

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

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
ZSK-92A, extruder line w/ particulate controls	OAC rule 3745-31-05(A)(3)	<p>The organic compound (OC) emissions from the extrusion operation of this emissions unit shall not exceed 0.34 lbs per hour nor 1.49 tons per year.</p> <p>The particulate emissions (PE) and PM10 from this emissions unit shall not exceed 0.12 lbs per hour nor 0.53 tons per year.</p> <p>Visible emissions from the stacks shall not exceed 5% opacity.</p> <p>The facility-wide use of cleanup materials shall not exceed 183 gallons per rolling 12-month rolling period.</p> <p>The facility-wide OC emissions from the use of cleanup materials shall not exceed 0.6 tons per rolling 12-month period.</p> <p>The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).</p> <p>This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.</p>
	OAC rule 3745-21-07(G)	See A.2.a and A.2.b. The limitations specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the limit 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 limit established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The hourly emission limitations for PE, 0.12 pound, and OC, 0.34 pounds, are established to reflect potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and

reporting requirements to ensure compliance with these limitations.

The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).

The use of photochemically reactive materials, as defined in OAC rule 3745-21-01 (C)(5), in this emissions unit is prohibited. Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, Ohio EPA, Southwest District Office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emissions limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

1. This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.
2. The organic compound (OC) content of the cleanup materials employed at this facility shall not exceed 6.3 pounds per gallon, as employed.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following monthly records on facility-wide use of cleanup materials:
 - a. the amount of cleanup employed, in gallons;
 - b. the volatile organic compound content of cleanup material, in pounds per gallon;
 - c. the OC emissions from the use of cleanup material, in tons ($(\text{"a"} \times \text{"b"})/2000$); and
 - d. the rolling, 12-month total OC emitted from the use of cleanup materials, in tons (the total OC emitted, in tons, for the current month ("c") plus the total amount of OC emissions for the 11 previous calendar months).
2. The pressure drop across the fabric filter system shall be maintained within the range of 1 to 7 inches of water while the emissions unit is in operation.

The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record in a log, the pressure drop across the baghouse on weekly basis.
3. The permittee shall perform weekly checks on stacks and/or vents that are involved with emissions from raw material handling. 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 date and time the weekly check was made;
 - b. the visible emission record sheet;
 - c. the color of the emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification when pressure drop across the fabric filter system was not maintained within the range of 1 to 7 inches of water while the emissions unit is in operation;
 - b. an identification when the facility-wide OC emissions from the use of cleanup materials exceeds 0.58 tons per rolling 12-month period; and
 - c. an identification visible emission reading from any stacks and/or vents that are involved with emissions from raw material handling, when the emissions unit is in operation, that exceeds the allowable 5% opacity.
2. The deviation (excursion) reports shall be submitted as quarterly reports specified in Part I, General Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

0.34 lb OC/hr from extrusion operation

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

HER= (HPR/2000) x EEF

where:

HER= Hourly Emission Rate, lbs/hr;
 HPR = maximum hourly production rate, in lbs (3,200 lbs/hr, from Advanced Composites', Emission Activity Category form);
 EEF = extruder emission factor, in lbs/2000 lbs processed (0.21 lbs/ton, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999").
 Emission Limitation:

0.12 lb PE/hr

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

HER= [(HPR/1000) x (REF +EEF + DEF)]

where:

HER= Hourly Emission Rate, lbs/hr;
 HPR = maximum hourly production rate, in lbs (3,200 lbs/hr, from Advanced Composites', Emission Activity Category form);
 REF = raw material handling emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1);
 EEF = extruder emission factor, in lbs/1000 lbs processed (0.0303 lbs/1000, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999"); and
 DEF = Spin Dryer emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1).
 Emission Limitation:

Visible particulate emissions from the baghouse(s) stack(s) shall not exceed 5% percent opacity as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

- 1. None

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

Facility ID: 0575010183 Emissions Unit ID: P020 Issuance type: Final State Permit To Operate

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

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

- 1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
- 2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
KTX-73, extruder line w/ particulate controls	OAC rule 3745-31-05(A)(3)	The organic compound (OC) emissions from the extrusion operation of this emissions unit shall not exceed 0.36 lbs per hour nor 1.58 tons per year. The particulate emissions (PE) and PM10 from this emissions unit shall not exceed 0.12 lbs per hour nor 0.53 tons per year.

Visible emissions from the stacks shall not exceed 5% opacity.

The facility-wide use of cleanup materials shall not exceed 183 gallons per rolling 12-month rolling period.

The facility-wide OC emissions from the use of cleanup materials shall not exceed 0.6 tons per rolling 12-month period.

The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).

This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.

See A.2.a and A.2.b.

OAC rule 3745-21-07(G) The limitations specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

OAC rule 3745-17-07(A) The visible emission limitation specified by this rule is less stringent than the limit 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 limit established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The hourly emission limitations for PE, 0.13 pound, and OC, 0.36 pounds, are established to reflect potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations. The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).

The use of photochemically reactive materials, as defined in OAC rule 3745-21-01 (C)(5), in this emissions unit is prohibited. Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, Ohio EPA, Southwest District Office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emissions limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

- 1. This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.
- 2. The organic compound (OC) content of the cleanup materials employed at this facility shall not exceed 6.3 pounds per gallon, as employed.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain the following monthly records on facility-wide use of cleanup materials:
 - a. the amount of cleanup employed, in gallons;
 - b. the volatile organic compound content of cleanup material, in pounds per gallon;
 - c. the OC emissions from the use of cleanup material, in tons ($(\text{"a"} \times \text{"b"})/2000$); and
 - d. the rolling, 12-month total OC emitted from the use of cleanup materials, in tons (the total OC emitted, in tons, for the current month ("c") plus the total amount of OC emissions for the 11 previous calendar months).
- 2. The pressure drop across the fabric filter system shall be maintained within the range of 1 to 7 inches of water while the emissions unit is in operation.

The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record in a log, the pressure drop across the baghouse on weekly basis.
- 3. The permittee shall perform weekly checks on stacks and/or vents that are involved with emissions from raw material handling. 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 date and time the weekly check was made;
 - b. the visible emission record sheet;
 - c. the color of the emissions;

- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification when pressure drop across the fabric filter system was not maintained within the range of 1 to 7 inches of water while the emissions unit is in operation;
 - b. an identification when the facility-wide OC emissions from the use of cleanup materials exceeds 0.58 tons per rolling 12-month period; and
 - c. an identification visible emission reading from any stacks and/or vents that are involved with emissions from raw material handling, when the emissions unit is in operation, that exceeds the allowable 5% opacity.
2. The deviation (excursion) reports shall be submitted as quarterly reports specified in Part I, General Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation:

0.36 lb OC/hr from extrusion operation

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = (HPR/2000) \times EEF$$

where:

HER = Hourly Emission Rate, lbs/hr;

HPR = maximum hourly production rate, in lbs (3,400 lbs/hr, from Advanced Composites', Emission Activity Category form);

EEF = extruder emission factor, in lbs/1000 lbs processed (0.21 lbs/ton, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999").

Emission Limitation:

0.12 lb PE/hr

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = [(HPR/1000) \times (REF + EEF)]$$

where:

HER = Hourly Emission Rate, lbs/hr;

HPR = maximum hourly production rate, in lbs (3,400 lbs/hr, from Advanced Composites', Emission Activity Category form);

REF = raw material handling emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1); and

EEF = extruder emission factor, in lbs/1000 lbs processed (0.0303 lbs/1000, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999").

Emission Limitation:

Visible particulate emissions from the baghouse(s) stack(s) shall not exceed 5% percent opacity as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None

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

Facility ID: 0575010183 Emissions Unit ID: P021 Issuance type: Final State Permit To Operate

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

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
KTX-73A, extruder line w/ particulate controls (terms in this permit supersede those in PTI 05-11903 issued on 12/27/01).	OAC rule 3745-31-05(A)(3)	The organic compound (OC) emissions from the extrusion operation of this emissions unit shall not exceed 0.56 lbs per hour nor 2.45 tons per year. The particulate emissions (PE) and PM10 from this emissions unit shall not exceed 0.2 lbs per hour nor 0.88 tons per year. Visible emissions from the stacks shall not exceed 5% opacity. The facility-wide use of cleanup materials shall not exceed 183 gallons per rolling 12-month rolling period. The facility-wide OC emissions from the use of cleanup materials shall not exceed 0.6 tons per rolling 12-month period. The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3). This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions. See A.2.a and A.2.b.
	OAC rule 3745-21-07(G)	The limitations specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-07(A)	The visible emission limitation specified by this rule is less stringent than the limit 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 limit established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The hourly emission limitations for PE, 0.2 pound, and OC, 0.56 pounds, are established to reflect potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.
 The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).

 The use of photochemically reactive materials, as defined in OAC rule 3745-21-01 (C)(5), in this emissions unit is prohibited. Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, Ohio EPA, Southwest District Office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emissions limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

1. This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.
 2. The organic compound (OC) content of the cleanup materials employed at this facility shall not exceed 6.3 pounds per gallon, as employed.
- C. Monitoring and/or Record Keeping Requirements**
1. The permittee shall maintain the following monthly records on facility-wide use of cleanup materials:
 - a. the amount of cleanup employed, in gallons;
 - b. the volatile organic compound content of cleanup material, in pounds per gallon;
 - c. the OC emissions from the use of cleanup material, in tons ("a" x "b")/2000; and
 - d. the rolling, 12-month total OC emitted from the use of cleanup materials, in tons (the total OC emitted, in tons, for the current month ("c") plus the total amount of OC emissions for the 11 previous calendar months).
 2. The pressure drop across the fabric filter system shall be maintained within the range of 1 to 7 inches of water while the emissions unit is in operation.

The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record in a log, the pressure drop across the baghouse on weekly basis.
 3. The permittee shall perform weekly checks on stacks and/or vents that are involved with emissions from raw material handling. 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 date and time the weekly check was made;
 - b. the visible emission record sheet;
 - c. the color of the emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1)
- D. Reporting Requirements**
1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification when pressure drop across the fabric filter system was not maintained within the range of 1 to 7 inches of water while the emissions unit is in operation;
 - b. an identification when the facility-wide OC emissions from the use of cleanup materials exceeds 0.58 tons per rolling 12-month period; and
 - c. an identification visible emission reading from any stacks and/or vents that are involved with emissions from raw material handling, when the emissions unit is in operation, that exceeds the allowable 5% opacity.
 2. The deviation (excursion) reports shall be submitted as quarterly reports specified in Part I, General Term and Condition A.2 of this permit.
- E. Testing Requirements**
1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

0.56 lb OC/hr from extrusion operation

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = (HPR/2000) \times EEF$$

where:

HER = Hourly Emission Rate, lbs/hr;
 HPR = maximum hourly production rate, in lbs (5,300 lbs/hr, from Advanced Composites', Emission Activity Category form);
 EEF = extruder emission factor, in lbs/1000 lbs processed (0.21 lbs/ton, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999").

Emission Limitation:

0.20 lb PE/hr

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = [(HPR/1000) \times (REF + EEF + DEF)]$$

where:

HER= Hourly Emission Rate, lbs/hr;
 HPR = maximum hourly production rate, in lbs (5,300 lbs/hr, from Advanced Composites', Emission Activity Category form);
 REF = raw material handling emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1);
 EEF = extruder emission factor, in lbs/1000 lbs processed (0.0303 lbs/1000, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999");and
 DEF = Spin Dryer emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1).
 Emission Limitation:

Visible particulate emissions from the baghouse(s) stack(s) shall not exceed 5% percent opacity as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None

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

Facility ID: 0575010183 Emissions Unit ID: P022 Issuance type: Final State Permit To Operate

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

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
 - (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
 - (a) None.

A. 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>
ZSK-133, extruder line w/ particulate controls (terms in this permit supersede those in PTI 05-12837 issued on 08/28/03).	OAC rule 3745-31-05(A)(3)	<p>The organic compound (OC) emissions from the extrusion operation of this emissions unit shall not exceed 1.26 lbs per hour nor 5.52 tons per year.</p> <p>The particulate emissions (PE) and PM10 from this emissions unit shall not exceed 0.45 lbs per hour nor 1.97 tons per year.</p> <p>Visible emissions from the stacks shall not exceed 5% opacity.</p> <p>The facility-wide use of cleanup materials shall not exceed 183 gallons per rolling 12-month rolling period.</p> <p>The facility-wide OC emissions from the use of cleanup materials shall not exceed 0.6 tons per rolling 12-month period.</p> <p>The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).</p>

This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.

See A 2.a and A 2.b.

OAC rule 3745-21-07(G)

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

OAC rule 3745-17-07(A)

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

2. Additional Terms and Conditions

- (a) The hourly emission limitations for PE, 0.46 pound, and OC, 1.26 pounds, are established to reflect potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.
The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).

The use of photochemically reactive materials, as defined in OAC rule 3745-21-01 (C)(5), in this emissions unit is prohibited. Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, Ohio EPA, Southwest District Office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emissions limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

- 1. This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.
- 2. The organic compound (OC) content of the cleanup materials employed at this facility shall not exceed 6.3 pounds per gallon, as employed.

C. Monitoring and/or Record Keeping Requirements

- 1. The permittee shall maintain the following monthly records on facility-wide use of cleanup materials:
 - a. the amount of cleanup employed, in gallons;
 - b. the volatile organic compound content of cleanup material, in pounds per gallon;
 - c. the OC emissions from the use of cleanup material, in tons (($a \times b$)/2000); and
 - d. the rolling, 12-month total OC emitted from the use of cleanup materials, in tons (the total OC emitted, in tons, for the current month (c) plus the total amount of OC emissions for the 11 previous calendar months).
- 2. The pressure drop across the fabric filter system shall be maintained within the range of 1 to 7 inches of water while the emissions unit is in operation.

The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record in a log, the pressure drop across the baghouse on weekly basis.
- 3. The permittee shall perform weekly checks on stacks and/or vents that are involved with emissions from raw material handling. 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 date and time the weekly check was made;
 - b. the visible emission record sheet;
 - c. the color of the emissions;
 - d. the total duration of any visible emission incident; and
 - e. any corrective actions taken to eliminate the visible emissions.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

D. Reporting Requirements

- 1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification when pressure drop across the fabric filter system was not maintained within the range of 1 to 7 inches of water while the emissions unit is in operation;

b. an identification when the facility-wide OC emissions from the use of cleanup materials exceeds 0.58 tons per rolling 12-month period; and

c. an identification visible emission reading from any stacks and/or vents that are involved with emissions from raw material handling, when the emissions unit is in operation, that exceeds the allowable 5% opacity.

2. The deviation (excursion) reports shall be submitted as quarterly reports specified in Part I, General Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):
Emission Limitation:

1.26 lb OC/hr from extrusion operation

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = (HPR/2000) \times EEF$$

where:

HER= Hourly Emission Rate, lbs/hr;

HPR = maximum hourly production rate, in lbs (12,000 lbs/hr, from Advanced Composites', Emission Activity Category form);

EEF = extruder emission factor, in lbs/1000 lbs processed (0.21 lbs/ton, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999").

Emission Limitation:

0.45 lb PE/hr

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = [(HPR/1000) \times (REF + EEF + DEF)]$$

where:

HER= Hourly Emission Rate, lbs/hr;

HPR = maximum hourly production rate, in lbs (12,000 lbs/hr, from Advanced Composites', Emission Activity Category form);

REF = raw material handling emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1);

EEF = extruder emission factor, in lbs/1000 lbs processed (0.0303 lbs/1000, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999"); and

DEF = Spin Dryer emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1).

Emission Limitation:

Visible particulate emissions from the baghouse(s) stack(s) shall not exceed 5% percent opacity as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None

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

Facility ID: 0575010183 Emissions Unit ID: P024 Issuance type: Final State Permit To Operate

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

Part II - Special Terms and Conditions

This permit document constitutes a permit-to-install issued in accordance with ORC 3704.03(F) and a permit-to-operate issued in accordance with ORC 3704.03(G).

1. For the purpose of a permit-to-install document, the emissions unit terms and conditions identified below are federally enforceable with the exception of those listed below which are enforceable under state law only.
- (a) None.
2. For the purpose of a permit-to-operate document, the emissions unit terms and conditions identified below are enforceable under state law only with the exception of those listed below which are federally enforceable.
- (a) None.

A. 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>
ZSK-92B, extruder line w/ particulate controls	OAC rule 3745-31-05(A)(3)	<p>The organic compound (OC) emissions from the extrusion operation of this emissions unit shall not exceed 0.39 lbs per hour nor 1.71 tons per year.</p> <p>The particulate emissions (PE) and PM10 from this emissions unit shall not exceed 0.14 lbs per hour nor 0.61 tons per year.</p> <p>Visible emissions from the stacks shall not exceed 5% opacity.</p> <p>The facility-wide use of cleanup materials shall not exceed 183 gallons per rolling 12-month rolling period.</p> <p>The facility-wide OC emissions from the use of cleanup materials shall not exceed 0.6 tons per rolling 12-month period.</p> <p>The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).</p> <p>This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.</p>
	OAC rule 3745-21-07(G)	See A.2.a and A.2.b.
	OAC rule 3745-17-07(A)	The limitations specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
	OAC rule 3745-17-11(B)	The visible emission limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).
		The PE limitation specified by this rule is less stringent than the limit established pursuant to OAC rule 3745-31-05(A)(3).

2. Additional Terms and Conditions

- (a) The hourly emission limitations for PE, 0.14 pound, and OC, 0.36 pounds, are established to reflect potential to emit for this emissions unit. Therefore, it is not necessary to establish record keeping and reporting requirements to ensure compliance with these limitations.

The organic materials employed by this emissions unit shall not be liquid organic materials as defined in OAC rule 3745-21-01(C)(3).

The use of photochemically reactive materials, as defined in OAC rule 3745-21-01 (C)(5), in this emissions unit is prohibited. Prior to employing any photochemically reactive materials, the permittee shall provide written notification to, and obtain approval from, Ohio EPA, Southwest District Office. Such notification shall include information sufficient to determine that the emissions associated with the proposed change in materials will comply with the emissions limits and/or control requirements as defined in OAC 3745-21-07(G)(2). This notification, at a minimum, shall include the company identification of the new material to be employed, the composition of the material, and the maximum amount to be used, in pounds per hour.

B. Operational Restrictions

1. This emissions unit shall be equipped with a fabric filter system that will minimize or eliminate any particulate emissions.
2. The organic compound (OC) content of the cleanup materials employed at this facility shall not exceed 6.3 pounds per gallon, as employed.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain the following monthly records on facility-wide use of cleanup materials:
 - a. the amount of cleanup employed, in gallons;
 - b. the volatile organic compound content of cleanup material, in pounds per gallon;
 - c. the OC emissions from the use of cleanup material, in tons ((“a” x “b”)/2000); and
 - d. the rolling, 12-month total OC emitted from the use of cleanup materials, in tons (the total OC emitted, in

tons, for the current month ("c") plus the total amount of OC emissions for the 11 previous calendar months).

2. The pressure drop across the fabric filter system shall be maintained within the range of 1 to 7 inches of water while the emissions unit is in operation.

The permittee shall properly install, operate, and maintain equipment to monitor the pressure drop across the baghouse while the emissions unit is in operation. The monitoring equipment shall be installed, calibrated, operated, and maintained in accordance with the manufacturer's recommendations, instructions, and operating manual(s). The permittee shall record in a log, the pressure drop across the baghouse on weekly basis.

3. The permittee shall perform weekly checks on stacks and/or vents that are involved with emissions from raw material handling. 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 date and time the weekly check was made;
- b. the visible emission record sheet;
- c. the color of the emissions;
- d. the total duration of any visible emission incident; and
- e. any corrective actions taken to eliminate the visible emissions.

Applicable Compliance Method

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which include the following information:
 - a. an identification when pressure drop across the fabric filter system was not maintained within the range of 1 to 7 inches of water while the emissions unit is in operation;
 - b. an identification when the facility-wide OC emissions from the use of cleanup materials exceeds 0.58 tons per rolling 12-month period; and
 - c. an identification visible emission reading from any stacks and/or vents that are involved with emissions from raw material handling, when the emissions unit is in operation, that exceeds the allowable 5% opacity.
2. The deviation (excursion) reports shall be submitted as quarterly reports specified in Part I, General Term and Condition A.2 of this permit.

E. Testing Requirements

1. Compliance with the emission limitation(s) in Section A.1. of these terms and conditions shall be determined in accordance with the following method(s):

Emission Limitation:

0.39 lb OC/hr from extrusion operation

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = (HPR/2000) \times EEF$$

where:

HER= Hourly Emission Rate, lbs/hr;

HPR = maximum hourly production rate, in lbs (3,700 lbs/hr, from Advanced Composites', Emission Activity Category form);

EEF = extruder emission factor, in lbs/1000 lbs processed (0.21 lbs/ton, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999").

Emission Limitation:

0.14 lb PE/hr

Applicable Compliance Method:

The hourly emission limitation was established by the following equation:

$$HER = [(HPR/1000) \times (REF + EEF + DEF)]$$

where:

HER= Hourly Emission Rate, lbs/hr;

HPR = maximum hourly production rate, in lbs (3,403 lbs/hr, from Advanced Composites', Emission Activity Category form);

REF = raw material handling emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1);

EEF = extruder emission factor, in lbs/1000 lbs processed (0.0303 lbs/1000, Journal of Air and Waste Management "Development of Emission Factors for Polypropylene Processing, Jan. 1999"); and

DEF = Spin Dryer emission factor, in lbs/1000 lbs processed (0.0036 lbs/1000, AP-42 Table 11.26-1).

Emission Limitation:

Visible particulate emissions from the baghouse(s) stack(s) shall not exceed 5% percent opacity as a six-minute average.

Applicable Compliance Method:

Compliance shall be determined through visible emission observations performed in accordance with 40 CFR Part 60, Appendix A, Method 9 and the procedures specified in OAC rule 3745-17-03(B)(1).

F. Miscellaneous Requirements

1. None