

Facility ID: 0125060525 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.

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

Facility ID: 0125060525 Emissions Unit ID: P001 Issuance type: Final State Permit To Operate

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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>
fiberglass roll sheet molding compound machines and test panel presses	OAC rule 3745-31-05(A)(3) PTI 01-7364	Particulate matter emissions shall not exceed 1.8 tons per year. Organic compound (OC) emissions shall not exceed 4.6 tons per year.
	OAC rule 3745-21-07(G)(2)	The requirements of this rule also include compliance with the requirements of OAC rule 3745-21-07(G)(2). See Part II A.2.a-b below OC emissions shall not exceed 8 lbs per hour and 40 lbs per day.

2. **Additional Terms and Conditions**
 - (a) The hourly and daily tons per year limitations were established to reflect the potential to emit for P001. Therefore, it is not necessary to develop record keeping and/or reporting requirements to ensure compliance with these limits. The maximum resin content in the fiberglass shall not exceed 50 percent. The maximum styrene content in the resin shall not exceed 55 percent. The maximum solids content in fiberglass shall not exceed 80 percent.

B. Operational Restrictions

1. The maximum annual production rate for emissions unit P001 shall not exceed 600,000 pounds of fiberglass, based upon a rolling, 12-month summation of the production rates. Compliance with the annual production rate limitation shall be based upon a rolling, 12-month summation of the monthly production rates.

C. Monitoring and/or Record Keeping Requirements

1. The permittee shall maintain monthly records of the following information:
 - a. The production totals for each month; and,
 - b. The rolling, 12-month summation of the production rates.
2. The permittee shall record the total pounds of resins used each month in emissions unit P001.

D. Reporting Requirements

1. The permittee shall submit deviation (excursion) reports which identify all exceedances of the rolling, 12-month production rate limitation.
2. The permittee shall notify the Ohio EPA, Central District Office in writing of any daily record showing an exceedance of the resin, styrene, and solids contents limitations listed in Section A.2.b. of these terms and conditions. A copy of such record shall be sent to the Ohio EPA, Central District Office within 60 days following the occurrence. The report shall include: (a) the probable cause of such deviations, and (b) any corrective actions or preventive measures which have been or will be taken to achieve compliance. The permittee need not file quarterly reports as outlined in the General Terms and Conditions.
3. The permittee shall submit annual reports which specify the total OC emissions from P001 for the previous calendar year. These reports shall be submitted by January 31 of each year.

E. Testing Requirements

1. Compliance with the emission limitation(s) of the terms and conditions shall be determined in accordance with the following methods.

Emission Limitation:

The yearly particulate matter emissions shall not exceed 1.8 tons per year.

Applicable Compliance Method:

Compliance shall be determined by multiplying the particulate matter emission factor (0.75%) per AP-42 Chapter 6 section 6.4.1, by the total solids used (lbs/year), and dividing by 2000 lbs/ton to get particulate matter emissions in tons/year.

Emission Limitation:

The yearly organic compound emissions shall not exceed 4.6 tons per year.

Applicable Compliance Method:

i. Fiberglass operations-Multiply the total amount of resin used (pounds/yr) with the maximum OC content (55%) and an organic compound emission factor of 5.5% and divide by 2000 lbs/ton to get organic compound emissions in tons/year. The actual pounds of resin used in a year shall be determined by the 12-month summation of the monthly records required by Section C.2.

ii. Resin Mixing-Multiply the gallons of monomer (styrene) used by the loading loss factor (0.0003), and then multiply by a factor of 4. This results in the pounds of monomer emissions assuming four transfers of the monomer. Lastly divide by 2000 pounds per ton to get organic compound emissions in tons per year.

Loading Loss Equation (LL) = $12.46 \cdot ((S \cdot M \cdot P) / (T))$

where:

LL = loading losses in 0.3309 pound per 1,000 gallons or 0.0003 pound per gallon

S = filling factor for splash filling (1.45)

P = true vapor pressure (0.0932 psi at 70 F)

M = molecular weight (104.15 lb/lb mole)

T = temperature (430 R)

density = 7.544 pounds per gallon

Compliance with the 4.6 tons per year limit shall be determined by adding the organic compound emissions from fiberglass operations and resin mixing.

2. Emission Limitation:
The organic compound (OC) emissions shall not exceed 8 lbs per hour and 40 lbs per day.

Applicable Compliance Method:

Compliance shall be determined by multiplying the OC 4.6 tons/year emission limitation by 2000 and dividing by 365 to get OC emissions in lbs/day and dividing by 24 to get OC emissions in lbs/hour.

F. Miscellaneous Requirements

1. None