



These limits define the potential emissions of VOM/styrene and are based on maximum material usages, individual VOM/styrene content, and the Composite Fabricators Association (CFA) Unified Emission Factors (UEF) for open molding of composites. VOM/styrene usage and emissions shall be calculated based on Condition 8c. Compliance with annual limits shall be determined on a monthly basis from the sum of the date for the current month plus the preceding 11 months.

4. The emissions of Hazardous Air Pollutants (HAP) as listed in Section 112(b) of the Clean Air Act shall be less than 10 tons/year of any single HAP and 25 tons/year of any combination of such HAPs. As a result of this condition, this permit is issued based on the emissions of all HAPs from this source not triggering the requirements to obtain a Clean Air Act Permit Program Permit (CAAPP), and Section 112(G) of the Clean Air Act.
- 5a. This permit is issued based on negligible emissions of particulate matter from the gelcoat spray booth resin and fiberglass spray lamination booth. For this purpose emissions from each emission source shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/yr.
- b. This permit is issued based on negligible emissions of volatile organic material from the paint booth. For this purpose, emissions shall not exceed nominal emission rates of 0.1 lb/hour and 0.44 ton/year.
6. This permit is issued based on the facility using clean up solutions that do not contain any volatile organic material.
7. In the event that the operation of this emission unit results in an odor nuisance, the Permittee shall take appropriate and necessary actions to minimize odors, including but not limited to, changes in raw material or installation of controls, in order to eliminate the odor nuisance.
8. Pursuant to 35 Ill. Adm. Code 215.301, no person shall cause or allow the discharge of more than 3.6 kg/hr (8 lbs/hr) of organic material into the atmosphere from any emission unit. If no odor nuisance exists the limitation of this subpart shall apply only to photochemically reactive material.
9. The Permittee shall maintain records of the following items:
  - a. Identification and VOM content and HAP content of each polyester resin and gelcoat used;
  - b. Amount of each polyester resin and gelcoat used (tons/mo and tons/yr); and
  - c. Detailed calculations of emissions/usage of VOM and speciated HAP for each operation (tons/mo and tons/yr).

Volatile organic material (VOM) and HAP emissions/usage from the gelcoat spray booth and resin and fiberglass spray lamination shall be calculated based upon the quantity of VOM/HAP present in each resin or gelcoat (% VOM/HAP) and the quantity of resin or gelcoat used. Emission factors for VOM/HAP emissions shall be based on the CFA UEF for open molding composites:

$$E_{VOM} = \sum_{i=1}^n (U_i \times EF_i)$$

Where:

- EVOM = VOM/HAP emission rate (lb/mo)
- n = Number of different gelcoats and resins used each month
- i = Subscript denoting an individual gelcoat and resin
- U<sub>i</sub> = Amount of resin or gelcoat used (tons/mo)
- EF<sub>i</sub> = Appropriate emission factor (lb/ton) from the CFA UEF emission factor for open molding of composites based on the VOM/HAP content in the resin/gelcoat.

- 10a. The Permittee shall obtain appropriate permits from the Illinois EPA in advance of any change in operation which would result in VOM emissions that are in excess of 25 tons per year.
- b. The Permittee shall be required to comply with the requirements of 35 Ill. Adm. code 215.204(j) for the paint booth if VOM emissions for the plant exceed 25 tons per year.
11. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA or USEPA request for records during the course of a source inspection.
12. If there is an exceedance of the requirements of this permit as determined by the records required by this permit, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, and a description of the exceedance or violation and efforts to reduce emissions and future occurrences.

13. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
Compliance Section (#40)  
P.O. Box 19276  
Springfield, Illinois 62794-9276

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency  
Division of Air Pollution Control  
5415 North University  
Peoria, Illinois 61614

14. The Permittee shall submit the following additional information with the Annual Emissions Report, due May 1st of each year: Resin/gelcoat usage, resin/gelcoat VOM/HAP content, and detailed calculations of VOM/HAP usage/emissions from the prior calendar year. If there has been no exceedance of a requirement of this permit during the prior calendar year, the annual emission report shall contain a statement to that effect.

If you have any questions on this, please call Tara T. Nguyen-Ede at 217/782-2113.

Donald E. Sutton, P.E.  
Manager, Permit Section  
Division of Air Pollution Control

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cc: Illinois EPA, FOS Region 2  
Illinois EPA, Compliance Section  
Lotus Notes

Attachment A - Emission Summary

This attachment provides a summary of the maximum emissions from the fiberglass composite molding facility operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario which results in maximum emissions from such a plant. The resulting maximum emissions are well below the levels, e.g., 10 tons/year for any single hazardous air pollutant (HAP) and 25 tons/year for combination of HAPs at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled and control measures are more effective than required in this permit.

1. Emissions of VOM and operation of the gelcoat spray booth resin and fiberglass spray lamination booth shall not exceed the following limits:

VOM/Styrene Usage		VOM/Styrene Emissions	
<u>(Tons/Month)</u>	<u>(Tons/Year)</u>	<u>(Tons/Month)</u>	<u>(Tons/Year)</u>
0.95	9.5	0.95	9.5

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