

**F21 - POLYESTER RESIN & FIBERGLASS OPS, MARBLE CASTING, POLYESTER RESIN, NONVAPOR SUPRESSED, UNCONTROLLED**

**CALCULATION METHODS**

$E_a = U_a \text{ (gal/yr)} \times D \text{ (lbs/gal)} \times \text{Conc. (lbs/lb)} \times \text{MEF} \times (1 - e)$

$E_h = U_h \text{ (gal/hr)} \times D \text{ (lbs/gal)} \times \text{Conc. (lbs/lb)} \times \text{MEF} \times (1 - e)$

**NOTES:**

- Assume a monomer emission rate of 0.02 of the monomer used.
- Nonvolatile compounds are assumed to have no emissions.
- Volatile organic solvents (not part of the polymerization reaction) are assumed to be fully released.
- Monomers such as styrene, methyl methacrylate, and vinyl acetate are assumed emitted in accordance with the emission factors specified in AP-42.
- A default styrene composition will be provided for each process and material as described in AP-42.
- Emission calculations are uncontrolled. Capture and removal efficiencies must be identified for controlled processes.

<b>POLLUTANT</b>	<b>AP-42 Default Composition</b>	<b>EPA REFERENCE</b>	<b>EPA</b>	<b>(UNITS)</b>	<b>COMMENTS</b>
	<b>(weight percent)</b>	<b>DOCUMENT</b>	<b>FACTOR</b>		
NOX					
CO					
SOX					
TOG					Assume TOG = all solvents + MEF x % Monomer
ROG					Assume ROG = TOG - Exempts
TSP					
PM10					
ACETONE					
METHYL METHACRYLATE		Section 4.4 AP-42 (1/95)			- Assume a monomer emission rate of 0.02 of the monomer used.
STYRENE	32%	Section 4.4 AP-42 (1/95)			- Assume a monomer emission rate of 0.02 of the monomer used.
TOLUENE					
XYLENES					

Last Updated on 8/26/99  
By D. Byrnes