

F22 - POLYESTER RESIN & FIBERGLASS OPS, MARBLE CASTING, POLYESTER RESIN, VAPOR SUPPRESSED, 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 0.015 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.

| POLLUTANT | AP-42 Default Composition | EPA REFERENCE | EPA | (UNITS) | COMMENTS |
|---------------------|----------------------------------|--------------------------|---------------|----------------|--|
| | (weight percent) | DOCUMENT | FACTOR | | |
| 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 0.015 of the monomer used. |
| STYRENE | 32% | Section 4.4 AP-42 (1/95) | | | - Assume a monomer emission rate of 0.015 of the monomer used. |
| TOLUENE | | | | | |
| XYLENES | | | | | |

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