



MFE 707A epoxy vinyl ester resin is a brominated vinyl ester that offers a high degree of fire retardance while providing the excellent chemical resistance and toughness typical of MFE® resins.

FEATURES

- ◆ High reactivity
- ◆ Laminates made with MFE 707A resin meet ASTM E-84 Flame Spread "Class 2" rating (less than 75). With the use of antimony synergists, Class 1 ratings can be achieved ⁽¹⁾
- ◆ Heat-resistant and flame-retardant
- ◆ Resists mechanical and chemical damage

APPLICATIONS

- ◆ Suitable for FRP ductwork stacks and stack-liner applications
- ◆ Suitable for equipment handling mixtures of air and hot gases, building panels, and flooring compounds where a degree of ignition-inhibiting properties is needed

LIQUID RESIN PROPERTIES ⁽²⁾

Property	Value	TM
Viscosity, cps (25 °C)	400 ± 100	ISO 2555
Density, g/cm ³	1.21 ± 0.02	ISO 1675
Solid Content, %	60.0 ± 3.0	ISO 3233
Gel Time ⁽²⁾ , min	12.0 ± 3.0	ISO 2535
Shelf Life ⁽³⁾ , Dark (25 °C)	6 months	

PROPERTIES OF PURE RESIN CASTING ⁽²⁾

Property	Value	TM
Tensile Strength, MPa	75 - 85	ASTM D638
Tensile Modulus, GPa	3.3 - 3.6	ASTM D638
Tensile Elongation, %	3.5 - 5.5	ASTM D638
Flexural Strength, MPa	120 - 140	ASTM D790
Flexural Modulus, GPa	3.4 - 3.7	ASTM D790
Barcol hardness	38 - 42	ASTM D2583
HDT (1.8 MPa), °C	108 - 115	ASTM D648

(1) The fire retardancy and flame spread data were obtained from controlled and/or small scale bench tests and the results apply specifically to the specimens tested, in the manner tested. They are not necessarily predictive of product performance in a real fire situation. MFE resins are organic materials and the fabricated products constructed from them will burn under the right conditions of heat and oxygen supply. This numerical flame spread rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(2) Typical property values only, not to be construed as specifications.

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(3) Unopened drum with no additives, promoters, accelerators, etc. added. Shelf life specified from date of manufacture Typical values only, should not be considered as product specifications.

TESTING CONDITIONS

Temperature: 25 °C. Relative moisture: 50 ± 5 %.

PACKING

Net weight 20 Kg / iron drum, 200 Kg / iron drum, 1000 Kg / IBC tank.

STORAGE

The storage environment should be dry and ventilated. The storage period below 25 °C is 6 months, Improper storage or transportation conditions will cause a shortening of the resin's storage period. The products shall comply with the provisions on the storage, transportation, loading and unloading of hazardous chemicals in the Regulations on the Safety Management of Hazardous Chemicals of the State Council. It is recommended to transport resin by refrigerated truck when the temperature exceeds 35 °C, and transport it at night to avoid direct sunlight.

MATERIAL SAFETY

A Material Safety Data Sheet of this product is available on request.

TEST METHODS

Test methods (TM) referred to in the table(s) are available on request.

SINO POLYMER is a leading manufacturer of epoxy vinyl ester resin, unsaturated polyester, epoxy resin, polysulphone, coating and adhesives since year 1958, with its headquarter and plant located in Shanghai Chemical Industry Park, P.R. China. The company's Total Quality Management Gene's guaranty sustainable product & service quality, lead time and competitiveness, as the Safety & Security Management, Improvement Process, R&D and International developments make Sino Polymer a sustainable partner on long term.

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