



MERICAN 3222 A/B is a two-component high performance epoxy resin system composed of epoxy resin and anhydride curing agent, which has the benefits of low viscosity and strong adhesion to fiber, it is suitable for pultrusion process.

FEATURES

- ◆ Good wet-out to fiber
- ◆ Long pot life and shelf life
- ◆ Fast curing speed at proper temperature
- ◆ Excellent process, thermal and mechanical properties

APPLICATIONS

- ◆ Suitable for pultrusion process
- ◆ Suitable for the manufacture of composite, such as pipes, bars and other profiles of various cross-sectional shapes and sizes

TYPICAL PRODUCT VALUES

Property ⁽¹⁾	MERICAN 3222 A	MERICAN 3222 B
Appearance	Colorless transparent liquid	Colorless to light yellow transparent liquid
Viscosity, cps (25 °C)	8000 - 12000	100 - 200
Density, g/cm ³ (25 °C)	1.1 - 1.2	1.1 - 1.2
Acid Value, mg KOH/g	-	550 - 650
Epoxy Equivalent, g/mol	175 - 190	-
Shelf Life (25 °C, sealed)	12 months	12 months

PROCESS PARAMETERS

It must be configured accordance with the instructions strictly, reduce or increase the addition of curing agent will not slow down or speed up its reaction. The resin and hardener must be completely mixed.

Property ⁽¹⁾	MERICAN 3222 A/B
Recommended Mass Ratio	100: 100
Mixed Viscosity, cps (25 °C)	600 - 1200
Mixed Density, g/cm ³ (25 °C)	1.1 - 1.2
Gel Time ⁽²⁾ , sec	60 - 90@150 °C

Property ⁽¹⁾	MERICAN 3222 A/B	TM
Curing Conditions	100 °C / 30 min + 200 °C / 30 min	
Tg, °C	115 - 125	ASTM D3418

MERICAN® 3222 A/B

Tensile Strength, MPa	60 - 80	ASTM D638
Tensile Modulus, GPa	2.6 - 3.0	ASTM D638
Elongation at Break, %	2.5 - 5.0	ASTM D638
Flexural Strength, MPa	100 - 120	ASTM D790
Flexural Modulus, GPa	2.6 - 3.0	ASTM D790

(1) Typical values only, should not be considered as product specifications.

(2) Hot plate, 0.2 g sample.

TESTING CONDITIONS

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

PACKING AND STORAGE

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

The storage container should be well sealed, and the environment should be cool, dry and ventilated due to the hygroscopicity of epoxy resin. The initiator and accelerator must avoid to direct sunlight, the two should be strictly separated and not be stored in the same warehouse or the same carriage for transportation.

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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