



MERICAN 3313-2 A1/B1 is a two-component flame-retardant epoxy resin system composed of epoxy resin and amine curing agent. Which meets the flame-retardant rating of UL94 V0 and the fiberglass composites according to DIN5510-2 S4.

FEATURES

- ◆ Low viscosity and fast defoaming
- ◆ Excellent thermal and mechanical properties
- ◆ Excellent heat resistance
- ◆ Outstanding flame-retardant properties
- ◆ Good wet-out to fiber
- ◆ Fast curing at medium temperature

APPLICATIONS

- ◆ Suitable for pultrusion and infusion processes
- ◆ Suitable for the manufacture of carbon fibre cabinet
- ◆ Suitable for the manufacture of body parts

TYPICAL PRODUCT VALUES ⁽¹⁾

Property	MERICAN 3313-2 A	MERICAN 3313-2 B
Appearance	Colorless transparent liquid	Colorless transparent liquid
Viscosity, cps (25 °C)	1900 - 2600	5 - 30
Amine Value, mg KOH/g	-	620 - 720
Epoxy Equivalent, g/mol	200 -250	-

PROCESS PARAMETERS ⁽¹⁾

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	MERICAN 3313-2 AB
Recommended Mass Ratio	100: 20
Recommended Volume Ratio	100: 25
Mixed Viscosity, cps (25 °C)	400 - 700
Pot Life, min (25 °C)	50 - 70

Property	MERICAN 3313-2 AB	TM
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MERICAN® 3313-2 A/B

Tg, °C	90 - 100	ASTM D3418
Tensile Strength, MPa	70 - 80	ASTM D638
Tensile Modulus, GPa	3.1 - 3.4	ASTM D638
Elongation at Break, %	5.0 - 6.0	ASTM D638
Flexural Strength, MPa	130 - 140	ASTM D790
Flexural Modulus, GPa	3.1 - 3.4	ASTM D790
Curing Conditions	90 °C /3 h	

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

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.

SINO POLYMER CO., LTD.

NO. 130, Muhua Road, Shanghai Chemical Industry Park, 201507
Shanghai, China

Phone: +86 21 64252619

Email: huachang@hchp.com.cn