



# MERICAN® 3300 A/B

MERICAN 3300 A/B is a two-component high performance epoxy resin system composed of epoxy resin and amine curing agent, which has the benefits of low viscosity, fast defoaming and strong adhesion to fiber, it is suitable for pultrusion and RTM process.

## FEATURES

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

## APPLICATIONS

- ◆ Suitable for the manufacture of small composite products by vacuum process
- ◆ Suitable for the manufacture of radomes etc.

## TYPICAL PRODUCT VALUES

Property <sup>(1)</sup>	MERICAN 3300 A	MERICAN 3300 B
Appearance	Colorless transparent liquid	Colorless transparent liquid
Viscosity, cps (25 °C)	900 - 1300	5 - 30
Density, g/cm <sup>3</sup> (25 °C)	1.1 - 1.2	0.9 - 1.0
Amine Value, mg KOH/g	-	620 - 650
Epoxy Equivalent, g/mol	165 - 185	-

## 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 <sup>(1)</sup>	MERICAN 3300 A/B
Recommended Mass Ratio	100: 30
Mixed Viscosity, cps (25 °C)	80 - 430
Mixed Density, g/cm <sup>3</sup> (25 °C)	1.0 - 1.2
Pot Life (25 °C)	2 h
Gel Time <sup>(2)</sup> , min	20.0 - 30.0 @80 °C
Gel Time <sup>(2)</sup> , min	3.0 - 4.0 @120 °C
Gel Time <sup>(2)</sup> , min	1.0 - 1.5 @140 °C

Property <sup>(1)</sup>	MERICAN 3300 A/B	TM
Curing Conditions	25 °C / 24 h + 80 °C / 5 h	

Tg, °C	130- 145	ASTM D3418
Tensile Strength, MPa	75 - 80	ASTM D638
Tensile Modulus, GPa	3.0 - 3.3	ASTM D638
Elongation at Break, %	5.0 - 8.0	ASTM D638
Flexural Strength, MPa	120 - 130	ASTM D790
Flexural Modulus, GPa	3.0 - 3.3	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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