



MERICAN 3526 is a hot-melt epoxy resin system, which has the advantages of high transparency, clarity and brightness, no grease and no white spots. It is suitable for prepregs such as carbon fiber and glass fiber.

FEATURES

- Highly transparent, no white spots after curing
- After molding, the product has no pinholes, lack of glue, yellowing and other defects
- Excellent handling and laminating properties

APPLICATIONS

- Suitable for 3K, 12K carbon fiber, aramid fiber, glass fiber woven fabric prepreg manufacturing
- Suitable for the carbon fiber products with A-grade surface
- Suitable for the 3C products, protective equipment, automotive exterior parts

TYPICAL PRODUCT VALUES

Property ⁽¹⁾	MERICAN 3526
Appearance	White Solid
Viscosity, cps (70 °C)	30000 - 40000
Gel Time, min (115 °C)	14 - 16
Shelf Life (25 °C)	≤2 days
Shelf Life (0 °C)	≤3 months
Shelf Life (-18 °C)	≤6 months

PROCESS PARAMETERS

Property ⁽²⁾	MERICAN 3526
Oven melting conditions	70 - 80 °C, 30 - 40 min
Gluing temperature, °C	73 - 80
Immersion temperature, °C	80 - 100

Property ⁽¹⁾	MERICAN 3526	TM
T _g , °C	100 - 115	ASTM D3418
Tensile Strength, MPa	70 - 80	ASTM D638
Tensile Modulus, GPa	3.0 - 3.3	ASTM D638
Elongation at Break, %	3.0 - 4.0	ASTM D638

MERICAN® 3526

Flexural Strength, MPa	110 - 130	ASTM D790
Flexural Modulus, GPa	3.0 - 3.3	ASTM D790
Curing Conditions	120 °C / 1 h + 150 °C / 1 h	

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

(2) The melting temperature of the oven is recommended to be adjusted according to the viscosity of each product; If the amount of adhesive is insufficient, it is recommended to increase the temperature for better adhesive surface; Note that the resin is easy to cure over 100 °C; If leaching is not enough, it is necessary to increase the temperature.

TESTING CONDITIONS

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

PACKING AND STORAGE

The product is packed in clean and dry carton box, 30 Kg/ ctn.

The storage container should be well sealed, and the environment should be cool, dry and ventilated due to the hygroscopicity of epoxy resin. After receiving the resin, please store it below 0 °C and use it up within the preservation period, to avoid the change of the resin over time, which will affect the preservation period of the prepreg and the quality of the final product.

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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