



MERICAN 9405T(CIPP) is an ISO type unsaturated polyester resin, which is designed for heat curing CIPP.

Features

- ◆ Excellent corrosion resistance to water / acid / salt solution
- ◆ High heat resistance and modulus
- ◆ Excellent mechanical properties

APPLICATIONS

- ◆ It is suitable for the field of pipeline rehabilitation (CIPP)

LIQUID RESIN PROPERTIES ⁽¹⁾

Property	Value	TM
Appearance	Light yellow viscous liquid	Visual
Viscosity, cps (25 °C)	3570 ± 250	ISO 2555
Gel Time ⁽²⁾ , min	16.0 ± 2.0	ISO 2535
Acid Value, mg KOH/g	12.0 ± 4.0	ISO 2114
Thixotropy Index	≥ 3.5	Brookfield 64# (6/60) RPM
Solid Content, %	66.0 ± 3.0	ISO 3233
Thermal Stability, hr (80 °C)	≥ 24	ISO 584

PROPERTIES ⁽¹⁾ OF PURE RESIN CASTING

Property	Value	TM
Tensile Strength, MPa	70 - 80	ASTM D638
Tensile Modulus, GPa	3.2 - 3.6	ASTM D638
Tensile Elongation, %	2.5 - 3.2	ASTM D638
Flexural Strength, MPa	110 - 130	ASTM D790
Flexural Modulus, GPa	3.3 - 3.7	ASTM D790
Barcol hardness	40 - 45	ASTM D2583
HDT (1.8 MPa), °C	100 - 105	ASTM D648

PROPERTIES ⁽¹⁾ OF POLYESTER FIBER COMPOSITE

Property	Value	TM
Flexural Strength, MPa	60 - 70	ASTM D790
Flexural Modulus, GPa	3.0 - 3.5	ASTM D790

(1) Typical physical properties, should not be considered as product specifications.

MERICAN® 9405T(CIPP)

(2) Oil bath at 82.2 °C with 1 % BPO (100 % powder) added.

TESTING CONDITIONS

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

PACKING

Standard packaging size: net weight 20 Kg / iron drum, 220 Kg / iron drum, 1000 Kg / IBC tank.

STORAGE

The storage environment should be dry and ventilated. The storage period below 25 °C is 4 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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