



MERICAN 9505 is an unsaturated polyester resin, which is suitable for fabricating double-wall underground storage tanks with excellent solvent resistance and ageing-resistant performance.

## FEATURES

- ◆ High molecular weight & high cross-linking degree
- ◆ High rigidity, excellent mechanical properties
- ◆ Excellent heat resisting & interlayer bonding force
- ◆ Excellent anti-corrosion properties
- ◆ UL 1316 (3rd edition) and UL 1746 approval

## APPLICATIONS

Suitable for hand lay up, filament winding and spray up process fabricating FRP products with high rigidity requirements, such as single wall FRP UST, FRP lining for steel UST, S-F and F-F double-wall UST etc.

## LIQUID RESIN PROPERTIES <sup>(1)</sup>

Property	Value	TM
Appearance	Light yellow transparent liquid	Visual
Viscosity, cps(25°C)	200 - 260	ISO 2555
Gel Time <sup>(2)</sup> , min	25.0 - 35.0	ISO 2535
Solid Content,%	55.0 - 61.0	ISO 3233
Thermal Stability,h(80° C)	≥ 24	ISO 584

## PROPERTIES <sup>(1)</sup> OF PURE RESIN CASTING <sup>(3)</sup>

Property	Value	TM
HDT (1.8 MPa), °C	126	ASTM D648
Tensile Strength, MPa	60	ASTM D638
Tensile Modulus, GPa	3.1	ASTM D638
Tensile Elongation, %	2.1	ASTM D638
Flexural Strength, MPa	110	ASTM D790
Flexural Modulus, GPa	3.4	ASTM D790
Barcol hardness	40	ASTM D2583

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

(2) Curing system: 1.5% Butanox M-50 (Akzo Nobel) and 1.5% NL-49P (Akzo Nobel).

(3) Cure schedule: 24 hours at room temperature; 2 hours at 120°C.

# MERICAN® 9505

## TESTING CONDITIONS

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

## PACKING

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 6 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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