

MERICAN 9400 Unsaturated Polyester Resin

MERICAN 9400 is ISO type unsaturated polyester resin with good mechanical properties and can be used in the process of hand lay-up, spray-up, pultrusion, filament winding, vacuum infusion, etc.

Features

- Medium chemical resistance properties
- Medium viscosity and better wettability with fiberglass
- Good mechanical properties with better toughness, higher elongation at break

Applications

- Tanks, pipes and various glass fiber reinforced plastic products produced with hand lay-up, filament winding, pultrusion, RTM process.
- Suitable for the FRP products which require water resistance

Properties for liquid resin

Properties	Value	Test Method
Appearance	Light yellow viscous liquid	Visual inspection
Viscosity, cPs (25℃) spindle#4,60rpm	300-500	ISO 2555
Acid value mg KOH/g	10-18	ISO 2114
Solid Content, %	59-65	ISO 3251
Gel time* (min,25℃)	8-16	ISO 2535

* Curing system:

2.5% Butanox M-50 (9% active oxygen, Akzo Nobel)

2.0% MERICAN 1010 (1% cobalt, product of Sino Polymer)

Other version of MERICAN 9400

MERICAN 9400P: pre-promoted version

MERICAN 9400TP: thixotropic, pre-promoted version

MERICAN 9400V: low viscosity version for RTM

MERICAN 9400LSE: low styrene emission version

Mechanical properties of resin castings

Properties	Value*	Test Method
Tensile Strength, MPa	70-80	ISO 527-2
Tensile Modulus, GPa	3.5-3.7	
Elongation at break,%	3.8-4.5	
Flexural Strength, MPa	115-130	ISO 178
Flexural Modulus, GPa	3.6-3.9	
HDT, °C(1.8MPa)	70-75	ISO 75
Barcol Hardness	38-42	Barcol 934-1

* The listed data is typical physical property, not to be construed as product specification.

Package

- 220 kg per steel drum or 1100 kg per IBC

Shelf life

- 6 months below 25℃ from the date of manufacture, store indoor with lighttight and airtight drum, avoid any exposure to heat sources such as direct sunlight or steam pipes, or any contaminations.
- Any unsuitable condition during storage & conveyance may cause the shortening of shelf life.

Note

- This product contains ingredients which could be harmful if handled inappropriately, the Material Safety Data Sheet (MSDS) should be read before handling.
- The specification is 2012 edition, may change along with the company's technical improvement.

MERICAN®

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