



## Technical Data Sheet

Version 2025-03-01

### Unsaturated Polyester Resin

#### JL 1300

#### Description.

An unsaturated polyester resin for SMC/BMC application.High reactivity with medium viscosity.Good thickening property.Reach class A surface when it combination with low shrinkage agents such as J L 9212 and J L 9313.

Widely used in SMC water tanks, automotive parts, electrical components, and industrial equipment.

#### Typical liquid property.

Item	Reference value	Remark
Appearance	Transparent liquid	
Viscosity*(mPa.s)	1450-1750	
Solid Content (%)	63.0-68.0	
Gardner color	≤ 2	
Acid value (mgKOH/g)	13-19	
SPI GT**(mins)	4.0-8.0	
SPI CT (mins)	5.5-10.5	
SPI PET (°C)	220-260	

The above information is for reference only. Given the diversity of production and application conditions, all of the above information should be appropriate adjustments depending on specific circumstances, the Company makes no guarantees about this, and reserves the right to information to modify.

\* 3sp. 60rpm at 25°C

\*\* 2.0% Perkadox CH-50 at 82.2°C

## Physical property for casting resin

Item	Unit	Test Value	Test Method
Tensile strength	MPa	52	GB/T 2568
Tensile modulus	MPa	2950	GB/T 2568
Elongation at break	%	1.1	GB/T 2568
Flexural strength	MPa	90	GB/T 2570
Flexural modulus	MPa	3300	GB/T 2570
HDT	°C	130	GB/T 1634
Hardness (Barcol 934-1)	--	48	GB/T 3854

Note: 1) 2.0% HS-909 with 2.0% Butanox M50 for casting resin cure.

2) Post cure condition: 24hrs at RT + 3hrs at 60°C + 2hrs at 100°C.

**Package.** 220kg with drum .

### Shelf life.

— 6 months for promoted when stored in original sealed containers below 25°C, away from direct heat, sunlight and rain.

### Attention.

— Transportation should fit the State Council "Chemistry Dangerous Articles Safety Management Regulations" .

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