

WL-8301C TECHNICAL DATA SHEET

Product Description

WL-8301C is a modified unsaturated polyester resin. The resin has medium viscosity and medium reactivity, excellent construction performance and mechanical properties.

Application

WL-8301C resin has high solid content and low viscosity, high strength and good wettability. It is mainly suitable for manufacturing high-performance solid surface materials, sanitary ware and other casting products.

Properties

Performance	Parameter	Unit	Standard test
Appearance	Light transparent	-	GB/T8237-2005
Viscosity 25°C	350-550	mPa.s	GB/T7193-2008
Acid value	15-25	MgKOH/g	GB/T2895-2008
Solid content	67-73	%	GB/T7193-2008
Gel time 25°C	4-8	minutes	GB/T7193-2008

Note: Gel time at 25°C: Add 0.7g Wanglin cobalt and 1.3g Wanglin curing agent to 100g resin.

Liquid resin properties (Typical value)

Performance	Date	Unit	Standard test
Storage Period (Non trigger, darkness), 20°C	3	month	-

Typical properties of resin castings

Performance	Parameter	Unit	Standard test
Tensile Strength	60	Mpa	GB/T2567-2008
Tensile modulus of elasticity	3200	Mpa	GB/T2567-2008
Elongation at break	3.5	%	GB/T2567-2008
Bending strength	85	Mpa	GB/T2567-2008
Bending elastic modulus	3300	MPa	GB/T2567-2008
Impact strength	9	KJ/m ²	GB/T2567-2008
Heat distortion temperature	75	°C	GB/T1634-2004

Curing condition: Room temperature curing 24 hours, 40°C, 60°C, 80°C curing after 2 hours.

Test conditions: temperature 23±2°C, relative humidity 50±6%.



Storage condition

1. Before use, the resin should be stored in the original package (to avoid the damage of opening the drum and the drum) in a dry room below 25°C.
2. The increase of temperature and light exposure will significantly reduce the storage period, and the storage should be kept away from direct sunlight and heat source.
3. The unsaturated polyester resin liquid containing styrene is flammable, and should be stored away from an open flame.

Instructions and attentions

1. WL-8301C resin does not contain an accelerator, and an appropriate amount of accelerator and curing agent must be added according to the operating environment and operating requirements.
2. When using, be sure to control the water content of fillers, pigment paste and other materials, and pay attention to the compatibility of pigment paste and unsaturated polyester resin.

Please refer to the safety data sheet.

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