

Chemical/Physical Nature

ZC-199 Resin is an isophthalicunsaturated polyester resin with isophthalic acid, fumaric acid and standard glycol as raw materials.Dissolved in styrene cross-linking monomer with medium viscosity and higher reactivity.

Benefits and Application

ZC-199 resin is a heat-resistant HE type with good acid resistance,high heat resistance,good strength and rigidity. Suitable for various high heat-resistant FRP products and FRP molds.

Liquid Resin Typical Properties

Property	Value	Unit	TM
Appearance	Yellow transparent viscous liquid	-	-
Acid value	21-27	mgKOH/g	GB/T 2895-2008
Viscosity, 25°C	0.35-0.65	Pa.s	GB/T 7193-2008
Solid content	58-64	%	GB/T 7193-2008
Thermal stability 80°C	≥24	h	GB/T 7193-2008
Gelation time 25°C	10-16	min	GB/T 7193-2008

Unfilled Castings Typical Properties

Property	Value	Unit	TM
Appearance	Cast body without defects	-	-
Barcol Hardness	46	-	GB/T 3854-2005
HDT	120	°C	GB/T 1634-2004
Break elongation	1.8	%	GB/T 2567-2008
Tensile strength	55	Mpa	GB/T 2567-2008
Tensile modulus	3500	Mpa	GB/T 2567-2008
Flexural strength	90	Mpa	GB/T 2567-2008
Flexural modulus	3600	Mpa	GB/T 2567-2008

FRP Typical Properties

Property	Value	Unit	TM
Barcol Hardness	67	-	GB/T 3584-2005
Flexural strength	3200	Mpa	GB/T 1449-2005
Flexural modulus	17000	Mpa	GB/T 1449-2005
Tensile strength	300	Mpa	GB/T 1447-2005
Tensile modulus	16000	Mpa	GB/T 1447-2005

Application Guidelines

1. ZC-199 resin contains wax and does not contain accelerators and thixotropic additives.
2. When selecting heat-resistant and chemical-resistant anti-corrosion resin, the appropriate resin should be selected based on the actual medium and temperature of the product, and the company's "Heat-resistant and chemical-resistant medium usage inquiry form" and confirmed through tests.
3. Post-curing of heat-resistant and corrosion-resistant FRP products is particularly important, and the products should be used after they are fully cured.

Package

ZC-199 Resin packaging: net weight 200 kg, metal drum. Special packaging requirements please Negotiable.

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