

常州联拓复合材料有限公司
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TECHINICAL DATA SHEET FOR 102PN

DS-102PN is an orthophthalic type pre accelerated unsaturated polyester resin with low viscosity and medium reactivity. The refractive index of the resin is close to that of glass fiber. The resin has good imbibition to glass fiber and is particularly applicable to the manufacture of glass tiles and transparent products.

Technical Indexes of Liquid Resin			
Item	Unit	Value	Standard
Appearance		Transparent Sticky	Visual
Acid Value	mgKOH/g	15-20	GB2895-82
Viscosity(25°C)	mPa.S	80-350	GB7193.1-87
Gel Time	min	4-8	GB7193.6-87
Non-Volatile	%	57-63	GB7193.3-87
Note: Gel Time is 25°C; in air bath; 0.5ml cobalt isocaprylate solution and 0.5 ml MEKP solution were added into 50 g resin			

Performance Indexes of Resin Casting Substance			
Item	Unit	Value	Standard
Barcol hardness \geq	Barcol	35	GB3854-1983
Tensile strength \geq	MPa	60	GB2568-1995
Tensile modulus \geq	MPa	3200	GB2568-1995
Elongation at break \geq	%	2.0	GB2568-1995
Flexural strength \geq	MPa	100	GB2570-1995
Flexural modulus \geq	MPa	3300	GB2570-1995
Impact strength \geq	KJ/m2	7	GB2571-1995
H.D.T \geq	°C	75	GB1634-1989
Note: Environmental Temperature for Experiment: 23±2°C; relative humidity: 50±5%			

Packing and Storing

102N: Packed in metal pail of 220 KG net weight with shelf life of 6 months at 20°C at ventilated places; avoiding direct sunlight and heat or fire.

Note: The data were tested according to GB standard. Influenced by many factors in the process of fabrication, necessary researches by user are not exclusive. Legally, no warranties for some performances of product are applicable to one specific use, and the rights to amend the materials are reserved.