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681-2 - Pultrusion Resin

DS-681-2 is an orthophthalic type unsaturated polyester resin suitable for pultrusion process. Fast pull rate, high brightness, good mechanical strength and toughness, application to high strength poles and profiles.

Technical Indexes of Liquid Resin			
Item	Unit	Value	Standard
Appearance		Sticky Thick Liquid	Visual
Chrome (Pt-Co)		30-60	GB7193.7-92
Acid Value	mgKOH/g	16-24	GB2895-82
Viscosity(25°C)	mPa.S	600-900	GB7193.1-87
Gel Time	min	5-8	GB7193.6-87
Non-Volatile	%	63-69	GB7193.3-87
Thermal Stability(80°C)	h	≥24	GB7193.5-87

Note: Gel Time is 25°C; in air bath, 0.5 ml 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≥	Barcol	40	GB3854-1983
Tensile strength ≥	MPa	65	GB2568-1995
Tensile modulus ≥	MPa	3200	GB2568-1995
Elongation at break≥	%	4. 0	GB2568-1995
Flexural strength≥	MPa	100	GB2570-1995
Flexural modulus≥	MPa	3200	GB2570-1995
Impact strength≥	KJ/m2	5. 0	GB2571-1995
H.D.T ≥	°C	65	GB1634-1989

Note: Environmental Temperature for Experiment: 23±2°C; relative humidity: 50±5%

Packing and Storing

DS-681-2: 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.