

**常州联拓复合材料有限公司**  
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### 196-3 - Hand Layup Resin

DS196-3 is an orthophthalic type common unsaturated polyester resin with medium viscosity and high reactivity, good fiber infiltration and relatively good mechanical properties, applicable to the manufacture of common frp products by hand lay-up process or filament winding process.

Technical Indexes of Liquid Resin			
Item	Unit	Value	Standard
Appearance		Transparent Sticky Thick Liquid	Visual
Acid Value	mgKOH/g	16-24	GB2895
Viscosity(25°C)	Mpa.S	380-620	GB7193
Gel Time	min	5-9	GB7193
Non-Volatile	%	63-69	GB7193
Thermal Stability(80°C)	h	≥24	GB7193

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

Specification for Physical Properties			
Item	Unit	Value	Standard
Barcol Hardness ≥	Barcol	38	GB3854
Tensile Strength ≥	MPa	55	GB2567
Elongation at break ≥	%	4	GB2567
Flexural Strength ≥	Mpa	70	GB2567
Impact strength ≥	KJ/M	6	GB2567
Heat deflection temperature(H.D.T) ≥	°C	65	GB1634.2

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

**Package and Recommended Storage:**

DS196-3 : Packed in metal drum of 220KGS 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.