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658N - Filament winding pipe/ Tank

DS-658N is a orthophthalic type unsaturated polyester resin with high elongation at breaks and impact strength, excellent mechanical strength. It is suitable for hand lay-up and spray-up, particularly applicable to winding glass fibers reinforced pipe, and common glass fiber product.

Technical Indexes of Liquid Resin			
Item	Unit	Value	Standard
Appearance		Transparent Sticky Thick Liquid	Visual
Acid Value	mgKOH/g	18-22	GB2895-82
Viscosity(25°C)	mPa.S	450-650	GB7193.1-87
Gel Time	min	8-10	GB7193.1-87
Exothermic Peak	°C	165-180	
Hardening time	Min	9-15	
Stability80°C	h	48	
Non-Volatile	%	60-68	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

Specification for Physical Properties			
Item	Unit	Value	Standard
Barcol hardness \geq	Barcol	40	GB3854-1983
Tensile strength \geq	MPa	70	GB2568-1995
Tensile modulus \geq	MPa	3000	GB2568-1995
Elongation at break \geq	%	3.5	GB2568-1995
Flexural strength \geq	MPa	90	GB2570-1995
Flexural modulus \geq	MPa	3200	GB2570-1995
Impact strength \geq	KJ/m ²	20	GB2571-1995
H.D.T \geq	°C	80	GB1634-1989

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

Packing and Storing

DS-658N: Packed in metal pail of 220 KG net weight with shelf life of 3-6 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.