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659 - Filament winding pipe/ Tank

DS-659 is an orthophthalic type unsaturated polyester resin with medium viscosity, medium reactivity, excellent glass imbibition to glass fibers and defoaming performance, particularly applicable to winding glass fibers reinforced, sand mixed pipes and glass steel products, with the advantages of high toughness, good water resistance etc.

Technical Indexes of Liquid Resin				
Item	Unit	Value	Standard	
Appearance		Thixotropic viscous liquid	Visual	
Acid Value	mgKOH/g	18-20	GB2895-82	
Viscosity (brookfiled) 25°C	mPa.S	500-700	GB7193.1-87	
Gel Time	min	6-10	GB7193.6-87	
Exothermic peak	°C	165-175		
Hardening time	min	8-15		
Solid content	%	60-65	GB7193.3-87	
80°C stability	h	48	GB7193.5-87	

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				
Unit	Value	Standard		
Barcol	42	GB3854-1983		
MPa	65	GB2568-1995		
MPa	2500	GB2568-1995		
%	5.5	GB2568-1995		
MPa	90	GB2570-1995		
MPa	2800	GB2570-1995		
KJ/m ²	13	GB2571-1995		
°C	75	GB1634-1989		
	Unit Barcol MPa MPa % MPa MPa MPa MPa MPa MPa	Unit Value Barcol 42 MPa 65 MPa 2500 % 5.5 MPa 90 MPa 2800 KJ/m² 13		

Packing and Storing

DS-659: 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.