

PPS P140

Glass Fiber Reinforced Polyphenylene Sulfide

	Characteristics	High temperature resistance, flame-retardant, good fluidity and high strength.		
	Applications	Water pump impeller, valves for pumps, insulating washer, bearings, etc.		
Properties (23℃)	Typical Value ^[1]		Unit	Test Method
Mechanical				
Tensile Stress	190	MPa	ISO 527	
Tensile Strain	1.6	%	ISO 527	
Flexural Stress	290	MPa	ISO 178	
Flexural Modulus	13000	MPa	ISO 178	
Izod Impact Strength (Notched)	9	kJ/m ²	ISO 180	
Thermal				
HDT (1.8MPa, 120℃/h)	240	℃	ISO 75	
Electrical				
Volume Resistivity	1E14	Ohms·cm	IEC 60093	
Electric Strength	25	kV/mm	IEC 60243	
Dielectric constant	4.0	23℃, 1M Hz	IEC 60250	
Dielectric Loss Angle	0.002	23℃, 1M Hz	IEC 60250	
Other				
Density	1.66	g/cm ³	ISO 1183	
Water uptake	0.02	%	ISO 62	
Flammability	V-0	Class	UL-94	
Mold Shrinkage (MD)	0.2	%	ISO 294	
Mold Shrinkage (TD)	0.8	%	ISO 294	
Molding Process ^[2]				
Drying Condition	Temperature		120-140℃	
	Time		4-6h	
Mold Temperature	130-150 ℃			
Barrel Temperature	Nozzle	Front	Middle	Rear
	300-310℃	300-310℃	290-310℃	290-300℃

Note: [1] These figures are only intended as a guide and should not be used in preparing specifications.

[2] The molding process is only for reference and can be adjusted according to different models and products.