

Generic PPS, Linear - Glass Fiber

Linear Polyphenylene Sulfide

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.40 - 1.92	g/cm ³	ISO 1183
Molding Shrinkage (23°C)	0.16 - 0.62	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.048 - 0.20	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	5000 - 18100	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	67.9 - 163	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)	0.79 - 1.7	%	ISO 527-2
Flexural Modulus (23°C)	4000 - 15200	MPa	ISO 178
Flexural Stress (23°C)	98.5 - 226	MPa	ISO 178
Coefficient of Friction	0.15 - 0.50		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	8.9 - 40	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	249 - 265	°C	ISO 75-2/A
Continuous Use Temperature	220	°C	ASTM D794
CLTE - Flow	2.3E-5 - 2.5E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity (23°C)	0.40 - 5.2	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+4 - 2.5E+12	ohms	IEC 60093
Insulation Resistance (23°C)	1.0E+4 - 2.5E+12	ohms	IEC 60167
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 135	°C	
Drying Time	3.0 - 4.0	hr	
Middle Temperature	320 - 327	°C	
Front Temperature	330 - 338	°C	
Processing (Melt) Temp	318 - 330	°C	
Mold Temperature	152 - 165	°C	
Injection instructions			

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