

Generic PSU - Glass Fiber

Polysulfone

Generic

Message:

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General Information			
Filler / Reinforcement	Glass fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.29 - 1.62	g/cm ³	ASTM D792
23°C	1.38 - 1.62	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.10 - 0.42	%	ASTM D955
23°C	0.22 - 0.85	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.10 - 0.24	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	121 - 123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	3030 - 10400	MPa	ASTM D638
23°C	8350 - 9400	MPa	ISO 527-2
Tensile Strength			
Yield, 23°C	68.9 - 124	MPa	ASTM D638
Fracture, 23°C	72.4 - 140	MPa	ASTM D638
Fracture, 23°C	87.0 - 135	MPa	ISO 527-2
23°C	75.2 - 108	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	1.3 - 5.1	%	ASTM D638
Fracture, 23°C	1.2 - 7.1	%	ASTM D638
Fracture, 23°C	1.3 - 1.9	%	ISO 527-2
Flexural Modulus			
23°C	3280 - 9890	MPa	ASTM D790
23°C	6000 - 9000	MPa	ISO 178
Flexural Strength			
23°C	109 - 159	MPa	ASTM D790
23°C	120 - 150	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			

23°C	52 - 82	J/m	ASTM D256
23°C	5.9 - 8.2	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	370 - 590	J/m	ASTM D256
23°C	24 - 40	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	182 - 188	°C	ASTM D648
0.45 MPa, not annealed	180 - 186	°C	ISO 75-2/B
1.8 MPa, not annealed	173 - 186	°C	ASTM D648
1.8 MPa, not annealed	174 - 185	°C	ISO 75-2/A
CLTE - Flow			
--	3.0E-5 - 3.2E-5	cm/cm/°C	ASTM D696
--	1.7E-5 - 5.2E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	1.0E+3 - 1.1E+16	ohms · cm	ASTM D257
Dielectric Strength (23°C)	17 - 19	kV/mm	ASTM D149
Dielectric Constant (23°C)	3.15 - 3.75		ASTM D150
Dissipation Factor (23°C)	7.0E-4 - 6.2E-3		ASTM D150
Injection	Nominal Value	Unit	
Drying Temperature	135 - 137	°C	
Drying Time	3.5 - 4.0	hr	
Suggested Max Moisture	0.049 - 0.050	%	
Rear Temperature	330 - 338	°C	
Middle Temperature	336 - 343	°C	
Front Temperature	334 - 354	°C	
Processing (Melt) Temp	351 - 367	°C	
Mold Temperature	121 - 149	°C	
Injection Pressure	95.3 - 98.1	MPa	
Back Pressure	0.258 - 0.517	MPa	
Screw Speed	45 - 55	rpm	
Injection instructions			

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