

Generic SPS - Glass Fiber

Syndiotactic Polystyrene

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
Specific Gravity			
--	1.10 - 1.54	g/cm ³	ASTM D792
23°C	1.14 - 1.41	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.15 - 0.60	%	ASTM D955
23°C	0.20 - 0.66	%	ISO 294-4
Water Absorption			
23°C, 24 hr	9.0E-3 - 0.011	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.010 - 0.021	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	6670 - 12100	MPa	ASTM D638
23°C	7190 - 13700	MPa	ISO 527-2
Tensile Stress			
Fracture, 23°C	75.0 - 130	MPa	ISO 527-2
23°C	84.5 - 126	MPa	ASTM D638
Tensile Elongation			
Yield, 23°C	1.2 - 2.5	%	ASTM D638
Fracture, 23°C	1.3 - 2.0	%	ASTM D638
Fracture, 23°C	1.5 - 2.6	%	ISO 527-2
Flexural Modulus			
23°C	6620 - 11900	MPa	ASTM D790
23°C	5000 - 13200	MPa	ISO 178
Flexural Strength			
23°C	103 - 188	MPa	ASTM D790
23°C	120 - 203	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5 - 13	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	28 - 47	kJ/m ²	ISO 179
Notched Izod Impact			

23°C	51 - 110	J/m	ASTM D256
23°C	7.9 - 12	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	210 - 610	J/m	ASTM D256
23°C	26 - 45	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, not annealed	259 - 269	°C	ASTM D648
0.45 MPa, not annealed	265 - 267	°C	ISO 75-2/B
1.8 MPa, not annealed	198 - 246	°C	ASTM D648
1.8 MPa, not annealed	220 - 250	°C	ISO 75-2/A
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.5E-5 - 3.2E-5	cm/cm/°C	ISO 11359-2
Lateral	3.8E-5 - 5.7E-5	cm/cm/°C	ISO 11359-2
RTI Elec	109 - 130	°C	UL 746
RTI Imp	105 - 120	°C	UL 746
RTI	105 - 130	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	8.9E+15 - 1.2E+16	ohms·cm	IEC 60093
Dielectric Strength (23°C)	24 - 50	kV/mm	ASTM D149
Dielectric Constant (23°C)	2.98 - 3.22		IEC 60250
Dissipation Factor (23°C)	1.0E-3 - 2.7E-3		IEC 60250
Injection	Nominal Value	Unit	
Drying Temperature	80.0 - 135	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	270 - 302	°C	
Middle Temperature	280 - 302	°C	
Front Temperature	290 - 302	°C	
Processing (Melt) Temp	295 - 310	°C	
Mold Temperature	64.1 - 111	°C	
Injection Pressure	85.3 - 86.2	MPa	
Injection instructions			

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