

Generic PPS, Linear - Carbon Fiber

Linear Polyphenylene Sulfide

Generic

Message:

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General Information			
Filler / Reinforcement	Carbon fiber reinforced material		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.41 - 1.52	g/cm ³	ASTM D792
23°C	1.37 - 1.56	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.070 - 0.61	%	ASTM D955
Transverse flow: 23°C	0.35 - 0.80	%	ASTM D955
23°C	0.070 - 0.39	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr	0.050 - 0.051	%	ISO 62
Equilibrium, 23°C, 50% RH	3.0E-3 - 0.031	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
23°C	10300 - 24200	MPa	ASTM D638
23°C	10300 - 30900	MPa	ISO 527-2
Tensile Strength			
Fracture, 23°C	127 - 187	MPa	ASTM D638
Fracture, 23°C	102 - 181	MPa	ISO 527-2
Tensile Strain			
Yield, 23°C	0.77 - 1.7	%	ISO 527-2
Fracture, 23°C	1.2 - 1.6	%	ASTM D638
Fracture, 23°C	0.99 - 2.0	%	ISO 527-2
Flexural Modulus			
23°C	8450 - 21300	MPa	ASTM D790
23°C	9460 - 27700	MPa	ISO 178
Flexural Strength			
23°C	193 - 283	MPa	ASTM D790
23°C	143 - 431	MPa	ISO 178
Coefficient of Friction	0.14 - 0.47		ASTM D1894
Impact	Nominal Value	Unit	Test Method
Charpy Unnotched Impact Strength (23°C)	14 - 25	kJ/m ²	ISO 179

Notched Izod Impact			
23°C	36 - 75	J/m	ASTM D256
23°C	5.0 - 8.1	kJ/m ²	ISO 180
Unnotched Izod Impact			
23°C	390 - 640	J/m	ASTM D256
23°C	24 - 35	kJ/m ²	ISO 180
Instrumented Dart Impact			
23°C	4.90 - 16.7	J	ASTM D3763
23°C	1.36 - 3.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
1.8 MPa, not annealed	108 - 267	°C	ASTM D648
1.8 MPa, not annealed	220 - 270	°C	ISO 75-2/A
Continuous Use Temperature	219 - 220	°C	ASTM D794
CLTE - Flow	8.4E-6 - 3.0E-5	cm/cm/°C	ISO 11359-2
Thermal Conductivity (23°C)	0.75 - 6.0	W/m/K	ISO 8302
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity			
--	1.0 - 6.3E+3	ohms	ASTM D257
--	2.0 - 2.5E+4	ohms	IEC 60093
Insulation Resistance (23°C)	10 - 1.0E+6	ohms	IEC 60167
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 136	°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	
Back Pressure	0.258 - 0.264	MPa	
Injection instructions			

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