

Generic PBT Alloy - Glass Fiber

Polybutylene Terephthalate Alloy

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)	1.33 - 1.58	g/cm ³	ISO 1183
Molding Shrinkage (23°C)	0.28 - 0.76	%	ISO 294-4
Water Absorption (Saturation, 23°C)	0.070 - 0.093	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	6960 - 10700	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	109 - 137	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.0 - 2.6	%	ISO 527-2
Flexural Modulus (23°C)	5000 - 12000	MPa	ISO 178
Flexural Stress (23°C)	100 - 240	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0 - 10	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	35 - 60	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	6.0 - 8.0	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	210 - 220	°C	ISO 75-2/B
1.8 MPa, not annealed	168 - 192	°C	ISO 75-2/A
Melting Temperature	224 - 225	°C	ISO 11357-3
Linear thermal expansion coefficient			ISO 11359-2
Flow	1.0E-5 - 3.1E-5	cm/cm/°C	ISO 11359-2
Lateral	6.9E-5 - 1.3E-4	cm/cm/°C	ISO 11359-2
RTI Elec	130 - 140	°C	UL 746
RTI Imp	125 - 130	°C	UL 746
RTI	120 - 132	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14 - 1.0E+16	ohms	IEC 60093
Volume Resistivity (23°C)	1.0E+15 - 2.0E+17	ohms · cm	IEC 60093
Dielectric Strength (23°C)	20 - 40	kV/mm	IEC 60243-1
Relative Permittivity (23°C)	3.55		IEC 60250
Dissipation Factor (23°C)	3.0E-3 - 0.017		IEC 60250

Flammability	Nominal Value	Unit	Test Method
Glow Wire Flammability Index	650 - 960	°C	IEC 60695-2-12
Injection	Nominal Value	Unit	
Drying Temperature	120	°C	
Drying Time	3.0 - 6.5	hr	
Suggested Max Moisture	0.040	%	
Rear Temperature	240	°C	
Front Temperature	255	°C	
Nozzle Temperature	250 - 255	°C	
Mold Temperature	79.9 - 90.0	°C	
Injection instructions			

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