

Generic PBT - Glass\Mineral

Polybutylene Terephthalate

Generic

Message:

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This information is provided for comparative purposes only.

General Information			
Filler / Reinforcement	Glass \Mineral		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.61 - 1.78	g/cm ³	ASTM D792
23°C	1.61 - 1.71	g/cm ³	ISO 1183
Molding Shrinkage			
Flow: 23°C	0.30 - 0.62	%	ASTM D955
Transverse flow: 23°C	0.50 - 0.71	%	ASTM D955
23°C	0.31 - 1.0	%	ISO 294-4
Water Absorption (23°C, 24 hr)	0.020 - 0.083	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (23°C)	109 - 123		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	7200 - 13500	MPa	ISO 527-2
Tensile Strength			
Fracture, 23°C	72.4 - 101	MPa	ASTM D638
Fracture, 23°C	89.4 - 125	MPa	ISO 527-2
Tensile Elongation			
Fracture, 23°C	2.0 - 3.0	%	ASTM D638
Fracture, 23°C	1.5 - 2.1	%	ISO 527-2
Flexural Modulus			
23°C	5380 - 10300	MPa	ASTM D790
23°C	9350 - 11100	MPa	ISO 178
Flexural Strength			
23°C	120 - 159	MPa	ASTM D790
23°C	129 - 182	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	4.0 - 7.2	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	30 - 36	kJ/m ²	ISO 179
Notched Izod Impact (23°C)	42 - 75	J/m	ASTM D256
Unnotched Izod Impact (23°C)	240 - 430	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			
0.45 MPa, not annealed	204 - 216	°C	ASTM D648
0.45 MPa, not annealed	209 - 220	°C	ISO 75-2/B
1.8 MPa, not annealed	193 - 210	°C	ASTM D648
1.8 MPa, not annealed	189 - 205	°C	ISO 75-2/A
Vicat Softening Temperature	180 - 220	°C	ISO 306
Linear thermal expansion coefficient			
Flow	2.5E-5	cm/cm/°C	ASTM E831
Flow	2.0E-5 - 3.0E-5	cm/cm/°C	ISO 11359-2
Lateral	7.0E-5 - 8.1E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity (23°C)	2.0E+14 - 1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (23°C)	18 - 30	kV/mm	ASTM D149
Dielectric Constant			
23°C	3.30 - 4.30		ASTM D150
23°C	3.71		IEC 60250
Dissipation Factor			
23°C	0.020		ASTM D150
23°C	2.0E-3 - 0.040		IEC 60250
Arc Resistance	124 - 140	sec	ASTM D495
Injection	Nominal Value	Unit	
Drying Temperature	118 - 126	°C	
Drying Time	2.9 - 4.0	hr	
Suggested Max Moisture	0.020 - 0.034	%	
Rear Temperature	235 - 252	°C	
Middle Temperature	245 - 255	°C	
Front Temperature	245 - 260	°C	
Nozzle Temperature	250 - 263	°C	
Processing (Melt) Temp	247 - 266	°C	
Mold Temperature	75.0 - 90.0	°C	
Back Pressure	0.172 - 0.517	MPa	
Screw Speed	65 - 100	rpm	
Injection instructions			

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