

Politer 50 GF

Polybutylene Terephthalate

Poliblend S.p.a.

Message:

Politer 50 GF is a Polybutylene Terephthalate (PBT) material filled with 50% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, or Latin America. Primary attribute of Politer 50 GF: Flame Rated.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Appearance	Natural Color		
Physical	Nominal Value	Unit	Test Method
Density	1.70	g/cm ³	ISO 1183
Molding Shrinkage	0.30 to 0.60	%	
Water Absorption (23°C, 24 hr)	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	14000	MPa	ISO 527-2
Tensile Stress			ISO 527-2
Yield	165	MPa	
Break	165	MPa	
Tensile Strain			ISO 527-2
Yield	1.5	%	
Break	1.5	%	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength	11	kJ/m ²	ISO 180/A
Unnotched Izod Impact Strength	110	kJ/m ²	ISO 180
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	225	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	°C	ISO 75-2/A
Continuous Use Temperature ¹	130	°C	
Vicat Softening Temperature	222	°C	ISO 306/A120
Ball Pressure Test (165°C)	Pass		IEC 60695-10-2
Melting Temperature	225	°C	DSC
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.800 mm	HB		
1.60 mm	HB		
3.20 mm	HB		

Injection	Nominal Value	Unit
Drying Temperature	120 to 130	°C
Drying Time	> 3.0	hr
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	80.0 to 90.0	°C

NOTE

- Without Load

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Recommended distributors for this material

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