Later 4 G/50

Polybutylene Terephthalate

LATI S.p.A.

Message:

Compound based on Polybutylene Terephtalate (PBT).
Glass fibres.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.74	g/cm³	ISO 1183
Molding Shrinkage [1]			ISO 294-4
Across Flow : 2.00 mm	0.70 to 0.90	%	
Flow : 2.00 mm	0.25 to 0.40	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2/1
23°C	15500	MPa	
60°C	10000	MPa	
90°C	7700	MPa	
120°C	5500	MPa	
150°C	4500	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	135	MPa	
Break, 60°C	90.0	MPa	
Break, 90°C	70.0	MPa	
Break, 120°C	55.0	MPa	
Break, 150°C	45.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.8	%	
Break, 60°C	2.5	%	
Break, 90°C	2.5	%	
Break, 120°C	3.0	%	
Break, 150°C	3.0	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	6.5	kJ/m²	
23°C	7.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	40	kJ/m²	
23°C	45	kJ/m²	

Notched Izod Impact (23°C, 3.20 mm)	90	J/m	ASTM D256A
Thermal	**Nominal Value**	**Unit**	**Test Method**
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Continuous Use Temperature [2]	140	°C	
Vicat Softening Temperature	220	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.0E-5	cm/cm/°C	ASTM D696
Injection	**Nominal Value**	**Unit**	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	240 to 260	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 MPa of cavity pressure		
2.	20,000 hr		

Recommended distributors for this material

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