

Later 4 G/20

Polybutylene Terephthalate
LATI S.p.A.

Message:

Compound based on Polybutylene Terephthalate (PBT). Glass fibres. Product UL certified.

General Information			
UL YellowCard	E54080-244031		
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.43	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	1.2 to 1.5	%	
Flow : 2.00 mm	0.50 to 0.75	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	8700	MPa	
60°C	5800	MPa	
90°C	4200	MPa	
120°C	3300	MPa	
150°C	2600	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	120	MPa	
Break, 60°C	75.0	MPa	
Break, 90°C	60.0	MPa	
Break, 120°C	45.0	MPa	
Break, 150°C	40.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	2.7	%	
Break, 60°C	3.8	%	
Break, 90°C	4.0	%	
Break, 120°C	4.2	%	
Break, 150°C	4.4	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	75	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	200	°C	ISO 75-2/A
Continuous Use Temperature ²	140	°C	
Vicat Softening Temperature	210	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	3.0E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	HB		
1.50 mm	HB		
3.00 mm	HB		
Oxygen Index	23	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	110 to 130	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	240 to 250	°C	
Mold Temperature	70.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 MPa of cavity pressure		
2.	20,000 hr		

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