

Later 4 K/30

Polybutylene Terephthalate

LATI S.p.A.

Message:

Compound based on Polybutylene Terephthalate (PBT).
Carbon fibre.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.25 to 0.40	%	
Flow : 2.00 mm	0.10 to 0.25	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	21500	MPa	
60°C	15500	MPa	
90°C	9300	MPa	
120°C	6200	MPa	
150°C	4300	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	150	MPa	
Break, 60°C	110	MPa	
Break, 90°C	80.0	MPa	
Break, 120°C	60.0	MPa	
Break, 150°C	45.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.0	%	
Break, 60°C	1.3	%	
Break, 90°C	1.5	%	
Break, 120°C	1.7	%	
Break, 150°C	2.0	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	40	kJ/m²	ISO 179/1eU
Notched Izod Impact (23°C)	60	J/m	ASTM D256A
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 ²	135	°C	
Vicat Softening Temperature	215	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	3.0E-6	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		

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