

Larpeek 10 K/40

Polyetheretherketone

LATI S.p.A.

Message:

Compound based on Polyetheretherketone (PEEK).

Carbon fibre.

Very good chemical resistance. Very good thermal resistance. Low smoke toxicity index and optical density.

General Information			
Filler / Reinforcement	Carbon Fiber,40% Filler by Weight		
Features	Good Chemical Resistance		
	High Heat Resistance		
Physical	Nominal Value	Unit	Test Method
Density	1.45	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.25 to 0.45	%	
Flow : 2.00 mm	0.050 to 0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	27000	MPa	
60°C	26500	MPa	
90°C	26500	MPa	
120°C	26000	MPa	
150°C	25500	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	255	MPa	
Break, 60°C	250	MPa	
Break, 90°C	240	MPa	
Break, 120°C	230	MPa	
Break, 150°C	200	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.1	%	
Break, 60°C	1.1	%	
Break, 90°C	1.1	%	
Break, 120°C	1.2	%	
Break, 150°C	1.2	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	45	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	65	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	> 300	°C	ISO 75-2/B
1.8 MPa, Unannealed	> 300	°C	ISO 75-2/A
Continuous Use Temperature ²	235	°C	
Vicat Softening Temperature	> 300	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	2.0E-6	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	50	ohms	ASTM D257
Volume Resistivity	1.0E+2	ohms·cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	120 to 150	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	370 to 400	°C	
Mold Temperature	170 to 200	°C	
Injection Rate	Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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