

Larpeek 10 K/40 HM

Polyetheretherketone

LATI S.p.A.

Message:

Compound based on Polyetheretherketone (PEEK).

Carbon fibre. High modulus.

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 Stiffness		
Physical	Nominal Value	Unit	Test Method
Density	1.47	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 (23°C)	39500	MPa	ISO 527-2/1
Tensile Stress (Break, 23°C)	210	MPa	ISO 527-2/5
Tensile Strain (Break, 23°C)	0.70	%	ISO 527-2/5
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)	25	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C)	50	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
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		

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