

Larpeek 10 K/30

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,30% Filler by Weight		
Features	Good Chemical Resistance		
	High Heat Resistance		
Physical	Nominal Value	Unit	Test Method
Density	1.41	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.30 to 0.50	%	
Flow : 2.00 mm	0.050 to 0.25	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	24000	MPa	
60°C	23500	MPa	
90°C	23500	MPa	
120°C	23000	MPa	
150°C	22500	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	240	MPa	
Break, 60°C	235	MPa	
Break, 90°C	225	MPa	
Break, 120°C	215	MPa	
Break, 150°C	190	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.3	%	
Break, 60°C	1.3	%	
Break, 90°C	1.3	%	
Break, 120°C	1.4	%	
Break, 150°C	1.4	%	
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)	40	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	60	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	230	°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	3.0E+2	ohms	ASTM D257
Volume Resistivity	6.0E+3	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	Moderate-Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

