

Larpeek 10 G/50

Polyetheretherketone

LATI S.p.A.

Message:

Compound based on Polyetheretherketone (PEEK).
UL94 V-0 classified, halogens free. Glass fibres.
Very good chemical resistance. Very good thermal resistance. Low smoke toxicity index and optical density.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Good Chemical Resistance		
	Halogen Free		
	High Heat Resistance		
Physical	Nominal Value	Unit	Test Method
Density	1.73	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.40 to 0.65	%	
Flow : 2.00 mm	0.15 to 0.40	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	18000	MPa	
60°C	18000	MPa	
90°C	17500	MPa	
120°C	17000	MPa	
150°C	16500	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	220	MPa	
Break, 60°C	210	MPa	
Break, 90°C	195	MPa	
Break, 120°C	170	MPa	
Break, 150°C	150	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.8	%	
Break, 60°C	1.8	%	
Break, 90°C	1.8	%	
Break, 120°C	1.9	%	
Break, 150°C	1.9	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	10	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	55	kJ/m ²	ISO 179/1eU

Notched Izod Impact (23°C, 3.20 mm)	110	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	240	°C	
Vicat Softening Temperature	> 300	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	8.0E-6	cm/cm/°C	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-1		
1.50 mm	V-0		
3.00 mm	V-0		
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (1.00 mm)	875	°C	IEC 60695-2-13
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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