

Larpeek 50

Polyetheretherketone

LATI S.p.A.

Message:

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

General Information			
Features	Good Chemical Resistance		
	Halogen Free		
	High Heat Resistance		
Physical	Nominal Value	Unit	Test Method
Density	1.30	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.95 to 1.4	%	
Flow : 2.00 mm	0.85 to 1.3	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	3500	MPa	
60°C	3500	MPa	
90°C	3450	MPa	
120°C	3400	MPa	
150°C	3000	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	95.0	MPa	
Yield, 60°C	80.0	MPa	
Yield, 90°C	60.0	MPa	
Yield, 120°C	50.0	MPa	
Yield, 150°C	30.0	MPa	
Break, 23°C	85.0	MPa	
Break, 60°C	75.0	MPa	
Break, 90°C	60.0	MPa	
Break, 120°C	50.0	MPa	
Break, 150°C	30.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	5.0	%	
Yield, 60°C	5.0	%	
Yield, 90°C	5.0	%	
Yield, 120°C	6.0	%	

Yield, 150°C	8.0	%	
Break, 23°C	30	%	
Break, 60°C	30	%	
Break, 90°C	30	%	
Break, 120°C	35	%	
Break, 150°C	45	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	No Break		ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	190	°C	ISO 75-2/B
1.8 MPa, Unannealed	155	°C	ISO 75-2/A
Continuous Use Temperature ²	200	°C	
Vicat Softening Temperature	> 300	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	5.0E-5	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	360 to 390	°C	
Mold Temperature	170 to 200	°C	
Injection Rate	Moderate-Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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