

Larpeek 10 GCE/600

Polyetheretherketone

LATI S.p.A.

Message:

Compound based on Polyetheretherketone (PEEK).

UL94 V-0 classified, halogens free. Glass fibres / Mineral filler.

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

General Information			
Filler / Reinforcement	Glass\Mineral,60% Filler by Weight		
Features	Good Chemical Resistance		
	Halogen Free		
	High Heat Resistance		
Physical	Nominal Value	Unit	Test Method
Density	1.93	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	0.20 to 0.45	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	17500	MPa	
60°C	17000	MPa	
90°C	17000	MPa	
120°C	16000	MPa	
150°C	15500	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	160	MPa	
Break, 60°C	145	MPa	
Break, 90°C	135	MPa	
Break, 120°C	115	MPa	
Break, 150°C	100	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	1.3	%	
Break, 60°C	1.3	%	
Break, 90°C	1.4	%	
Break, 120°C	1.4	%	
Break, 150°C	1.5	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.0	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)	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	250	°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
Comparative Tracking Index ³ (Solution A)	200	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm	V-0		
1.50 mm	V-0		
3.00 mm	V-0		
Injection	Nominal Value	Unit	
Drying Temperature	120 to 150	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	390 to 400	°C	
Mold Temperature	170 to 200	°C	
Injection Rate	Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		
3.	Without Surfactant		

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