

Lapex R G/20

Polyphenylsulfone

LATI S.p.A.

Message:

Compound based on Polyphenylensulphone (PPSU).

UL94 V-0 classified, halogens free. Glass fibres.

Low smoke density and low toxicity index. Very high dimensional stability.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Good Dimensional Stability		
	Halogen Free		
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	0.80 to 0.95	%	
Flow : 2.00 mm	0.40 to 0.55	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	5900	MPa	
60°C	5600	MPa	
90°C	5100	MPa	
120°C	4800	MPa	
150°C	4600	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	110	MPa	
Break, 60°C	105	MPa	
Break, 90°C	95.0	MPa	
Break, 120°C	85.0	MPa	
Break, 150°C	65.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	2.5	%	
Break, 60°C	2.2	%	
Break, 90°C	2.2	%	
Break, 120°C	2.2	%	
Break, 150°C	2.1	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	25	kJ/m ²	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	100	J/m	ASTM D256A

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	210	°C	ISO 75-2/A
Continuous Use Temperature ²	190	°C	
Vicat Softening Temperature	220	°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
1.50 mm	V-0		
3.00 mm	V-0		
Oxygen Index	38	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	140 to 180	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	350 to 390	°C	
Mold Temperature	150 to 190	°C	
Injection Rate	Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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