

Lapex A G/30

Polyethersulfone

LATI S.p.A.

Message:

Compound based on Polyethersulphone (PES).

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,30% Filler by Weight		
Features	Good Dimensional Stability		
	Halogen Free		
Physical	Nominal Value	Unit	Test Method
Density	1.60	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	0.60 to 0.75	%	
Flow : 2.00 mm	0.30 to 0.45	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	9600	MPa	
60°C	9400	MPa	
90°C	9200	MPa	
120°C	9000	MPa	
150°C	9600	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	130	MPa	
Break, 60°C	125	MPa	
Break, 90°C	115	MPa	
Break, 120°C	100	MPa	
Break, 150°C	90.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	2.0	%	
Break, 60°C	2.1	%	
Break, 90°C	2.3	%	
Break, 120°C	2.4	%	
Break, 150°C	2.5	%	
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)	25	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	220	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	°C	ISO 75-2/A
Continuous Use Temperature ²	185	°C	
Vicat Softening Temperature	220	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	4.0E-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	40	%	ASTM D2863
Injection	Nominal Value	Unit	
Drying Temperature	150 to 180	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	350 to 370	°C	
Mold Temperature	140 to 165	°C	
Injection Rate	Fast		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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