Lapex A G/20

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,20% Filler by Weight
Features	Good Dimensional Stability
	Halogen Free

Physical	Nominal Value	Unit	Test Method
Density	1.49	g/cm³	ISO 1183
Molding Shrinkage [1]			ISO 294-4
Across Flow : 2.00 mm	0.75 to 0.90	%	
Flow : 2.00 mm	0.35 to 0.50	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-2/1
23°C	6700	MPa	
60°C	6500	MPa	
90°C	6300	MPa	
120°C	6200	MPa	
150°C	5900	MPa	
Tensile Stress			ISO 527-2/5
Yield, 150°C	90.0	MPa	
Break, 23°C	115	MPa	
Break, 60°C	110	MPa	
Break, 90°C	100	MPa	
Break, 120°C	90.0	MPa	
Break, 150°C	80.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 150°C	2.5	%	
Break, 23°C	2.5	%	
Break, 60°C	2.6	%	
Break, 90°C	2.7	%	
Break, 120°C	2.8	%	
Break, 150°C	3.0	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	4.0	kJ/m²	ISO 179/1eA

Charpy Unnotched Impact Strength (23°C)	35	kJ/m^2	ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	55	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]	180	°C	
Vicat Softening Temperature	220	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.0E-5	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	39	%	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		

Recommended distributors for this material

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