

Lapex A

Polyethersulfone

LATI S.p.A.

Message:

Polyethersulphone (PES).
UL94 V-0 classified, halogens free.
Low smoke density and low toxicity index. Very high dimensional stability.

General Information			
Features		Good Dimensional Stability	
		Halogen Free	
Physical	Nominal Value	Unit	Test Method
Density	1.37	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	0.75 to 0.95	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	2950	MPa	
60°C	2800	MPa	
90°C	2750	MPa	
120°C	2700	MPa	
150°C	2600	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	85.0	MPa	
Yield, 60°C	80.0	MPa	
Yield, 90°C	75.0	MPa	
Yield, 120°C	65.0	MPa	
Yield, 150°C	50.0	MPa	
Tensile Strain			ISO 527-2/5
Yield, 23°C	6.0	%	
Yield, 60°C	6.0	%	
Yield, 90°C	4.7	%	
Yield, 120°C	4.0	%	
Yield, 150°C	3.2	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.5	kJ/m ²	
23°C	6.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU

-20°C	No Break		
23°C	No Break		
Notched Izod Impact (23°C, 3.20 mm)	70	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	210	°C	ISO 75-2/B
1.8 MPa, Unannealed	195	°C	ISO 75-2/A
Continuous Use Temperature ²	180	°C	
Vicat Softening Temperature	215	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	3.0E-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	140 to 180	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	340 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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