

LATI Lapex A G/20 PES, 20% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyethersulfone (PES) , Polyethersulfone (PES), 20%Glass Fiber Filled

Material Notes:

Polyether Sulfone (PES) based compound. Glass fibers. Low smoke density and low toxicity index. Very high dimensional stability. Availability: Africa & Middle East; Asia Pacific; Europe; Latin America; North America Information provided by Lati Industria Termoplastici S.p.A.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LATI-Lapex-A-G20-PES-20-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	
Linear Mold Shrinkage, Flow	0.0035 - 0.0050 cm/cm	0.0035 - 0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0075 - 0.0090 cm/cm	0.0075 - 0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.0 MPa	11600 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	90.0 MPa	13100 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	100 MPa	14500 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	110 MPa	16000 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	115 MPa	16700 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	2.5 %	2.5 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.6 %	2.6 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.7 %	2.7 %	

Mechanical Properties	Metric	English	Comments
	2.8 % @Temperature 90.0 Å°C	2.8 % @Temperature 194 Å°F	
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	3.0 % @Temperature 150 Å°C	3.0 % @Temperature 302 Å°F	
Elongation at Yield	2.5 % @Temperature 150 Å°C	2.5 % @Temperature 302 Å°F	
Tensile Modulus	5.90 GPa @Temperature 150 Å°C	856 ksi @Temperature 302 Å°F	
	6.15 GPa @Temperature 120 Å°C	892 ksi @Temperature 248 Å°F	
	6.30 GPa @Temperature 90.0 Å°C	914 ksi @Temperature 194 Å°F	
	6.50 GPa @Temperature 60.0 Å°C	943 ksi @Temperature 140 Å°F	
	6.70 GPa @Temperature 23.0 Å°C	972 ksi @Temperature 73.4 Å°F	
Charpy Impact Unnotched	3.50 J/cmÅ²	16.7 ft-lb/inÅ²	
Charpy Impact, Notched	0.400 J/cmÅ²	1.90 ft-lb/inÅ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	180 Å°C	356 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	220 Å°C	428 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	215 Å°C	419 Å°F	
Vicat Softening Point	220 Å°C @Load 5.00 kg	428 Å°F @Load 11.0 lb	
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	V-0	V-0	

Thermal Properties	Metric @ Thickness 1.50 mm	English @ Thickness 0.0591 in	Comments
Oxygen Index	39 %	39 %	

Processing Properties	Metric	English	Comments
Melt Temperature	350 - 370 Â°C	662 - 698 Â°F	
Mold Temperature	140 - 165 Â°C	284 - 329 Â°F	
Drying Temperature	150 - 180 Â°C @Time 10800 sec	302 - 356 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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