

LATI Laril 13 G/20-V1 PPOm, 20% Glass Fiber Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 20% Glass Filled

Material Notes:

Modified Polyphenylene Oxide (PPOm) based compound. Glass fibers. UL94 V-1 classified, with brominated flame retardants, PBB/PBDE and antimony trioxide free. High dimensional stability. Good thermal properties. 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-Laril-13-G20-V1-PPOm-20-Glass-Fiber-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	
Linear Mold Shrinkage, Flow	0.0040 - 0.0065 cm/cm	0.0040 - 0.0065 in/in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	20.0 MPa	2900 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	45.0 MPa	6530 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	70.0 MPa	10200 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
Elongation at Break	90.0 MPa	13100 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.0 %	2.0 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.0 %	2.0 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.2 %	2.2 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	3.0 %	3.0 %	

Mechanical Properties	Metric	English	Comments
Elongation at Yield	1.5 %	1.5 %	
	@Temperature 90.0 °C	@Temperature 194 °F	
	1.5 %	1.5 %	
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Modulus	3.30 GPa	479 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	5.40 GPa	783 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	6.00 GPa	870 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	6.90 GPa	1000 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.50 J/cm ²	11.9 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	2.50 J/cm ²	11.9 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.700 J/cm ²	3.33 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	115 °C	239 °F	
Deflection Temperature at 0.46 MPa (66 psi)	130 °C	266 °F	
Deflection Temperature at 1.8 MPa (264 psi)	125 °C	257 °F	
	130 °C	266 °F	

Vicat Softening Point Thermal Properties	Metric @Load 5.00 kg	English @Load 11.0 lb	Comments
Flammability, UL94	V-1 @Thickness 1.50 mm	V-1 @Thickness 0.0591 in	
Oxygen Index	31 %	31 %	
Glow Wire Test	960 Â°C @Thickness 2.00 mm	1760 Â°F @Thickness 0.0787 in	GWFI/GWT

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	250 V	250 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	260 - 280 Â°C	500 - 536 Â°F	
Mold Temperature	80.0 - 90.0 Â°C	176 - 194 Â°F	
Drying Temperature	80.0 - 90.0 Â°C @Time 10800 sec	176 - 194 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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