

LATI Laril 13 G/20 PPOm, 20% Glass Fiber Reinforced

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

Material Notes:

Modified Polyphenylene Oxide (PPOm) based compound. Glass fibers. Low thermal expansion coefficient. 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-PPOm-20-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 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	25.0 MPa	3630 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	45.0 MPa	6530 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	60.0 MPa	8700 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
Elongation at Break	80.0 MPa	11600 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.5 %	2.5 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.5 %	2.5 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.5 %	2.5 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	4.0 %	4.0 %	

Mechanical Properties	Metric	English	Comments
Elongation at Yield	1.7 %	1.7 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	1.8 %	1.8 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	2.0 %	2.0 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
Tensile Modulus	4.20 GPa	609 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	5.80 GPa	841 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	6.30 GPa	914 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	6.30 GPa	914 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
Charpy Impact Unnotched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	120 Â°C	248 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	135 Â°C	275 Â°F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	125 Â°C	257 Â°F	
Vicat Softening Point	140 Â°C @Load 5.00 kg	284 Â°F @Load 11.0 lb	
Oxygen Index	25 %	25 %	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	225 V	225 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	270 - 290 Â°C	518 - 554 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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