

LATI Laramid G/15 PPA, 15% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 20% Glass Fiber Reinforced

Material Notes:

Semi-aromatic polyamide (PPA) based compound. Glass fibers. Very good thermal properties. Good chemical resistance. Low moisture absorption. 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-Laramid-G15-PPA-15-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.30 g/cc	0.0470 lb/in ³	
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Linear Mold Shrinkage, Transverse	0.0085 - 0.0115 cm/cm	0.0085 - 0.0115 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.0 MPa	7980 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	75.0 MPa	10900 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	100 MPa	14500 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	105 MPa	15200 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	110 MPa	16000 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	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	
	2.0 %	2.0 %	

Mechanical Properties	Metric @Temperature 90.0 Â°C	English @Temperature 194 Â°F	Comments
	5.0 %	5.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	12 %	12 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Elongation at Yield	3.5 %	3.5 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	10 %	10 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	2.00 GPa	290 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	4.40 GPa	638 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	5.70 GPa	827 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	6.80 GPa	986 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	7.20 GPa	1040 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	1.70 J/cmÂ²	8.09 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	2.00 J/cmÂ²	9.52 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.400 J/cmÂ²	1.90 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	135 Â°C	275 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	280 Â°C	536 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	250 Â°C	482 Â°F	
Vicat Softening Point	265 Â°C @Load 5.00 kg	509 Â°F @Load 11.0 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 330 Â°C	590 - 626 Â°F	
Mold Temperature	150 - 170 Â°C	302 - 338 Â°F	
Drying Temperature	120 - 130 Â°C @Time 10800 sec	248 - 266 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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