

LATI Laramid G/50 PPA, 50% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% 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-G50-PPA-50-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.64 g/cc	0.0592 lb/in ³	
Linear Mold Shrinkage, Flow	0.0020 - 0.0040 cm/cm	0.0020 - 0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0045 - 0.0070 cm/cm	0.0045 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	155 MPa	22500 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	185 MPa	26800 psi	
Elongation at Break	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	205 MPa	29700 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	260 MPa	37700 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.1 %	2.1 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.3 %	2.3 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.4 %	2.4 %	

Mechanical Properties	Metric	English	Comments
	3.8 %	3.8 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	6.5 %	6.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	1.10 GPa	160 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	6.00 GPa	870 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	12.5 GPa	1810 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	14.5 GPa	2100 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	17.5 GPa	2540 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	7.50 J/cmÂ²	35.7 ft-lb/inÂ²	
Charpy Impact, Notched	1.20 J/cmÂ²	5.71 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 Â°C	302 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	290 Â°C	554 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	280 Â°C	536 Â°F	
Vicat Softening Point	275 Â°C	527 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 340 Â°C	590 - 644 Â°F	
Mold Temperature	150 - 170 Â°C	302 - 338 Â°F	
	120 - 130 Â°C	248 - 266 Â°F	

Drying Temperature			
Processing Properties	Metric	English	Comments
	@ Time 10800 sec	@ Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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