

LATI Laramid G/60 PPA, 60% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

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-G60-PPA-60-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	
Linear Mold Shrinkage, Flow	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0065 cm/cm	0.0040 - 0.0065 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	165 MPa	23900 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	215 MPa	31200 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	240 MPa	34800 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	280 MPa	40600 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.8 %	1.8 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.9 %	1.9 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.2 %	2.2 %	

Mechanical Properties	@Temperature 90.0 Metric °C	@Temperature 194 °F English	Comments
	3.3 %	3.3 %	
	@Temperature 120 °C	@Temperature 248 °F	
	5.0 %	5.0 %	
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	6.50 GPa	943 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	15.0 GPa	2180 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	20.0 GPa	2900 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	22.0 GPa	3190 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	24.0 GPa	3480 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	9.00 J/cm ²	42.8 ft-lb/in ²	
Charpy Impact, Notched	1.50 J/cm ²	7.14 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	150 °C	302 °F	
Deflection Temperature at 0.46 MPa (66 psi)	290 °C	554 °F	
Deflection Temperature at 1.8 MPa (264 psi)	280 °C	536 °F	
Vicat Softening Point	280 °C	536 °F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	

Thermal Properties	Metric @ Thickness 0.750 mm	English @ Thickness 0.0295 in	Comments
Oxygen Index	42 %	42 %	
Glow Wire Test	750 Â°C @Thickness 1.00 mm	1380 Â°F @Thickness 0.0394 in	GWFI/GWT
	750 Â°C @Thickness 2.00 mm	1380 Â°F @Thickness 0.0787 in	GWFI/GWT

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	
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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