

LATI Laramid G/30-V0HF1 PPA, 30% Glass Fiber Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 30% Glass Fiber Reinforced

Material Notes:

Semi-aromatic polyamide (PPA) based compound. Glass fibers. UL94 V-0 classified, halogens-based flame retardants and red phosphorous free. 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-G30-V0HF1-PPA-30-Glass-Fiber-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	
Linear Mold Shrinkage, Flow	0.0035 - 0.0050 cm/cm	0.0035 - 0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0070 - 0.010 cm/cm	0.0070 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	85.0 MPa	12300 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	100 MPa	14500 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	110 MPa	16000 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	120 MPa	17400 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.3 %	1.3 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.5 %	1.5 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.0 %	2.0 %	

Mechanical Properties	Metric	English	Comments
	4.0 %	4.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	5.0 %	5.0 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	5.00 GPa	725 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	7.50 GPa	1090 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	9.00 GPa	1310 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	11.5 GPa	1670 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	13.0 GPa	1890 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	3.00 J/cmÂ²	14.3 ft-lb/inÂ²	
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	140 Â°C	284 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	290 Â°C	554 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	260 Â°C	500 Â°F	
Vicat Softening Point	260 Â°C	500 Â°F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	

Thermal Properties	Metric	English	Comments
Glow Wire Test	775 Â°C	1430 Â°F	GWIT
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	775 Â°C	1430 Â°F	GWIT
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	960 Â°C	1760 Â°F	GWFI/GWT
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	960 Â°C	1760 Â°F	GWFI/GWT
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	600 V	600 V	A solution

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	248 - 266 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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