

LATI Laramid G/45 PPA, 45% 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-G45-PPA-45-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.55 g/cc	0.0560 lb/in ³	
Linear Mold Shrinkage, Flow	0.0025 - 0.0050 cm/cm	0.0025 - 0.0050 in/in	
Linear Mold Shrinkage, Transverse	0.0060 - 0.0090 cm/cm	0.0060 - 0.0090 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	95.0 MPa	13800 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	150 MPa	21800 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	170 MPa	24700 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	195 MPa	28300 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	245 MPa	35500 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	2.2 %	2.2 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.4 %	2.4 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.5 %	2.5 %	

Mechanical Properties	@Temperature 90.0 Metric °C	@Temperature 194 °F English	Comments
	4.0 %	4.0 %	
	@Temperature 120 °C	@Temperature 248 °F	
	6.8 %	6.8 %	
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	5.80 GPa	841 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	10.5 GPa	1520 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	12.0 GPa	1740 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	14.0 GPa	2030 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	17.5 GPa	2540 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	8.50 J/cm ²	40.4 ft-lb/in ²	
Charpy Impact, Notched	1.00 J/cm ²	4.76 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	275 °C	527 °F	
	@Load 5.00 kg	@Load 11.0 lb	

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

Driving Temperature Processing Properties	Metric @ Time 10800 sec	English @ Time 3.00 hour	Comments
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Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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