

LATI LARAMID G/45 45% Glass Filled Polyphthalamide (PPA) Based Compound (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA) , Polyphthalamide (PPA), 50% Glass Fiber Reinforced

Material Notes:

Laramid compounds are based on a unique semi-crystalline engineering polymer (polyphthalamide) offering improved performance compared to traditional engineering thermoplastics at a lower cost than specialty polymers. Laramid offers excellent mechanical properties (strength, stiffness, fatigue and creep resistance) over a broad temperature range, exceptional thermal resistance good dimensional stability and good processing characteristics. Furthermore, it's properties are not affected much by typical moisture levels therefore Laramid compounds do not require critical drying procedures and can be easily employed for complicated part production using conventional molding equipment. Glass fiber reinforced Laramid requires accurate design to reduce differential shrinkage and to minimize warpage of parts. Disclaimer from LATI: This document contains information based on average values as obtained from the results of laboratory tests and observations made on LATI materials. Tested materials were injection molded, used in their natural color, and conditioned in compliance with Standard ASTM D 618, procedure A. These values refer to LATI's best technical and scientific knowledge at the moment of testing and cannot be used as a basis for the development of applications. For a better assessment of the materials, you are kindly requested to contact LATI's technical or commercial offices, which are at your disposal and will supply detailed information on the most suitable characteristics for their intended use. With reference to DPR n.224 dated May 24, 1988, issued in accordance with EC Guidelines 85/374, LATI Industria Termoplastici S.p.A. declines all responsibility arising from an improper use of the products described in this document. All data provided by LATI.

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http://www.lookpolymers.com/polymer_LATI-LARAMID-G45-45-Glass-Filled-Polyphthalamide-PPA-Based-Compound-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0015 cm/cm	0.0015 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	LATI

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	225 MPa	32600 psi	ISO 527
Flexural Modulus	15.0 GPa	2180 ksi	ASTM D790
Izod Impact, Notched	1.05 J/cm @Temperature 23.0 °C	1.97 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	285 °C	545 °F	ASTM D648
	HB	HB	

Thermal Properties	Metric	English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	21.0 kV/mm @Thickness 2.00 mm	533 kV/in @Thickness 0.0787 in	IEC 243-1
Comparative Tracking Index	500 V	500 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	310 - 335 °C	590 - 635 °F	
Mold Temperature	150 - 170 °C	302 - 338 °F	
Drying Temperature	80.0 - 90.0 °C	176 - 194 °F	Necessary, use a desiccant-type hopper dryer.
Dry Time	>= 6 hour	>= 6 hour	

Descriptive Properties	Value	Comments
Injection Speed	medium	

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