

LATI LAXTAR G/30 30% Glass Reinforced LCP (discontinued **)

Category : Polymer , Thermoplastic , Liquid Crystal Polymer (LCP) , Liquid Crystal Polymer (LCP), 30% Glass Fiber Filled

Material Notes:

Description: Laxtar products are liquid crystal polymers (LCP). They offer exceptional performance together with increasing cost-effectiveness. Due to the outstanding fluidity at high shear rates LCPs can be injection-molded into long thin-wall components (as thin as 0.25 millimeter) at high speeds and by using very short cycle times. Moreover the thermal stability of Laxtar allows efficient use of high percentage of regrind. Laxtar meets the requirements of vapor phase and infrared soldering for surface mount assembly technology . Moreover they withstand high levels of UV radiation and are transparent to microwaves. Specific Notes for this Material: LCP, 30% glass fiber, flame retardant UL94 V0, halogens and red phosphorous free 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 Guide-lines 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LATI-LAXTAR-G30-30-Glass-Reinforced-LCP-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	LATI

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	130 MPa	18900 psi	ISO 527
Flexural Modulus	14.0 GPa	2030 ksi	ASTM D790
Izod Impact, Notched	0.900 J/cm @Temperature 23.0 °C	1.69 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	270 °C	518 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
	V-0	V-0	

Thermal Properties	Metric @ Thickness 1.50 mm	English @ Thickness 0.0591 in	Comments
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Electrical Properties	Metric	English	Comments
Dielectric Strength	38.0 kV/mm @Thickness 2.00 mm	965 kV/in @Thickness 0.0787 in	IEC 243-1
Comparative Tracking Index	185 V	185 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	320 - 360 °C	608 - 680 °F	
Mold Temperature	65.0 - 95.0 °C	149 - 203 °F	
Drying Temperature	150 °C	302 °F	Use a desiccant-type hopper dryer. For tray drying, pellets should be dried in 2.5-5 mm deep layer for 8 hours.
Dry Time	6 - 8 hour	6 - 8 hour	

Descriptive Properties	Value	Comments
Injection Speed	high	

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