

LATI LAESTRA G/40-V0CT1 40% Glass Fiber Reinforced, Elastomer Modified, Flame Retardant Syndiotactic Polystyrene (SPS)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Syndiotactic Polystyrene (SPS) , Syndiotactic Polystyrene (SPS) with Glass or Carbon Fiber

Material Notes:

Description: Laestra compounds are syndiotactic polystyrene (SPS) products. SPS is a polymer offering a combination of properties unavailable with other materials. It exhibits a melting point of 270°C and a glass transition temperature of 100°C, therefore it is an alternative to more expensive high temperature materials. Laestra compounds retain excellent property performance levels and dimensional stability at high temperature environments/applications like under the hood components or IR soldering of connectors. Laestra provides a resistance against a wide range of acids, bases and organic solvents. Moreover, it does not absorb moisture and is not affected by water at room or high temperatures. Glass Reinforced Laestra offers high rigidity at high temperatures and lower differential shrinkage compared to other semi-crystalline resins. However the presence of glass fiber still requires an accurate design in order to reduce the risk of warpage. **Specific Notes for this Material:** SPS, 40% glass fiber, elastomer modified, flame retardant UL94 V0 **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.

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http://www.lookpolymers.com/polymer_LATI-LAESTRA-G40-V0CT1-40-Glass-Fiber-Reinforced-Elastomer-Modified-Flame-Retardant-Syndiotactic-Polystyrene-SPS.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0090 cm/cm	0.0090 in/in	LATI

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	115 MPa	16700 psi	ISO 527
Flexural Modulus	13.0 GPa	1890 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm @Temperature 23.0 °C	1.50 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa	240 °C	464 °F	

(264 psi) Thermal Properties	Metric	English	ASTM D648 Comments
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	17.0 kV/mm	432 kV/in	IEC 243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	>= 400 V	>= 400 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	300 - 325 °C	572 - 617 °F	
Mold Temperature	100 - 150 °C	212 - 302 °F	
Drying Temperature	80.0 - 100 °C	176 - 212 °F	Not essential. Moisture pickup may occur under adverse, high humidity conditions.
Dry Time	>= 2 hour	>= 2 hour	

Descriptive Properties	Value	Comments
Injection Speed	high	

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