

LATI LASTIROL TR G/10-V1 ES 10% Glass Fiber Polystyrene (PS) Structural Foam Resin (UL94 V-1) (discontinued *

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Glass Filled

Material Notes:

Description: Lastirol thermoplastics are polystyrene (PS) products. The Lastirols feature excellent dimensional stability, good flowability, and can be molded without any particular problem. Glass fiber reinforced types have high rigidity and excellent dimensional stability. Specific Notes for this Material: UL94V-1 self-extinguishing, with halogens; 10% glass fiber; structural foam resin, for business machines to be painted; excellent dimensional stability, without sink marks. 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-LASTIROL-TR-G10-V1-ES-10-Glass-Fiber-Polystyrene-PS-Structural-Foam-Resin-UL94-V-1-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.10 g/cc	0.0397 lb/in ³	ISO 1183
Water Absorption	0.10 %	0.10 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0020 cm/cm	0.0020 in/in	LATI

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	32.0 MPa	4640 psi	ISO 527
	20.0 MPa @Temperature 60.0 °C	2900 psi @Temperature 140 °F	ISO 527
Flexural Modulus	3.60 GPa	522 ksi	ASTM D790
	3.30 GPa @Temperature 60.0 °C	479 ksi @Temperature 140 °F	ASTM D790
Izod Impact, Notched	0.300 J/cm	0.562 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.300 J/cm	0.562 ft-lb/in	

Mechanical Properties	Metric @ Temperature -40.0 °C	English @ Temperature -40.0 °F	ASTM D256 Comments
	0.550 J/cm @Temperature 23.0 °C	1.03 ft-lb/in @Temperature 73.4 °F	ASTM D256
Charpy Impact Unnotched	1.50 J/cm ² @Temperature -40.0 °C	7.14 ft-lb/in ² @Temperature -40.0 °F	DIN 53453
	1.60 J/cm ² @Temperature -20.0 °C	7.61 ft-lb/in ² @Temperature -4.00 °F	DIN 53453
	1.80 J/cm ² @Temperature 23.0 °C	8.57 ft-lb/in ² @Temperature 73.4 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	95.0 °C	203 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	86.0 °C	187 °F	ASTM D648
Vicat Softening Point	90.0 °C	194 °F	50°C/h 50N; ISO 306
Flammability, UL94	V-2 @Thickness 3.00 mm	V-2 @Thickness 0.118 in	
	V-1 @Thickness 6.00 mm	V-1 @Thickness 0.236 in	
Oxygen Index	24 %	24 %	ISO 4589
Glow Wire Test	960 °C @Thickness 2.00 mm	1760 °F @Thickness 0.0787 in	IEC 695-2-1
	960 °C @Thickness 1.00 mm	1760 °F @Thickness 0.0394 in	IEC 695-2-1

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 200 °C	356 - 392 °F	
Mold Temperature	20.0 - 30.0 °C	68.0 - 86.0 °F	
Drying Temperature	60.0 - 70.0 °C	140 - 158 °F	Temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Drying time can be reduced when using vacuum ovens.

Descriptive Properties	Value	Comments
Heat Resistance - Ball Test (125°C)	N	IEC 335
Heat Resistance - Ball Test (165°C)	N	IEC 335
Injection Speed	high	
Needle Burner Test	Y	1.47 mm
	Y	3.05 mm

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