

LATI LASTIROL TR G/10-V1 10% Glass Fiber Reinforced Polystyrene (PS) (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; good dimensional stability. 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-V1-10-Glass-Fiber-Reinforced-Polystyrene-PS-UL94-V-1-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ISO 1183
Water Absorption	0.060 %	0.060 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0025 cm/cm	0.0025 in/in	LATI

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	50	50	ASTM D785
Tensile Strength, Ultimate	40.0 MPa	5800 psi	ISO 527
	25.0 MPa	3630 psi	ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	
Flexural Modulus	3.50 GPa	508 ksi	ASTM D790
	3.30 GPa	479 ksi	ASTM D790
	@Temperature 60.0 °C	@Temperature 140 °F	
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	

Mechanical Properties	Metric	English	Comments
	0.40 J/cm	0.0031 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.750 J/cm	1.41 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.00 J/cm ²	9.52 ft-lb/in ²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.00 J/cm ²	9.52 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.00 J/cm ²	9.52 ft-lb/in ²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	92.0 °C	198 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	ASTM D648
Vicat Softening Point	95.0 °C	203 °F	50°C/h 50N; ISO 306
Flammability, UL94	V-2	V-2	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-1	V-1	
	@Thickness 3.00 mm	@Thickness 0.118 in	
Oxygen Index	24 %	24 %	ISO 4589
Glow Wire Test	960 °C	1760 °F	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	960 °C	1760 °F	IEC 695-2-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	23.0 kV/mm	584 kV/in	IEC 243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	375 V	375 V	IEC 112

Processing Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °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	medium	
Needle Burner Test	Y	1.47 mm
	Y	3.05 mm

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