LATI LASTIROL TR-V0 Polystyrene (PS) (UL94 V-0) (discontinued **)

Category : Polymer , Thermoplastic , Polystyrene (PS) , Polystyrene, Heat Resistant Grade

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-0 self-extinguishing, with halogens; heat-resisting version; excellent flowability; good surface finish.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.

Order this product through the following link:
http://www.lookpolymers.com/polymer_LATI-LASTIROL-TR-V0-Polystyrene-PS-UL94-V-0-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.19 g/cc	0.0430 lb/in³	ISO 1183
Water Absorption	0.050 %	0.050 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0040 cm/cm	0.0040 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	LATI

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	45	45	ASTM D785
Tensile Strength, Ultimate	30.0 MPa	4350 psi	ISO 527
	18.0 MPa @Temperature 60.0 °C	2610 psi @Temperature 140 °F	ISO 527
Flexural Modulus	2.25 GPa	326 ksi	ASTM D790
	1.90 GPa @Temperature 60.0 °C	276 ksi @Temperature 140 °F	ASTM D790
Izod Impact, Notched	0.400 J/cm @Temperature -40.0 °C	0.749 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.500 J/cm	0.937 ft-lb/in	

Mechanical Properties	Metric	English	Comments
	@Temperature -20.0 °C	@Temperature -4.00 °F	ASTM D256
	0.900 J/cm @Temperature 23.0 °C	1.69 ft-lb/in @Temperature 73.4 °F	ASTM D256
Charpy Impact Unnotched	3.50 J/cm² @Temperature -20.0 °C	16.7 ft-lb/in² @Temperature -4.00 °F	DIN 53453
	3.50 J/cm² @Temperature -40.0 °C	16.7 ft-lb/in² @Temperature -40.0 °F	DIN 53453
	4.00 J/cm² @Temperature 23.0 °C	19.0 ft-lb/in² @Temperature 73.4 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	94.0 °C	201 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	75.0 °C	167 °F	ASTM D648
Vicat Softening Point	94.0 °C	201 °F	50°C/h 50N; ISO 306
Flammability, UL94	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
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

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	250 V	250 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	170 - 190 °C	338 - 374 °F	
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.

Processing Properties	Metric	English	Comments
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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