

LATI LASTANE 50 G/40 40% Glass Fiber Reinforced Polyurethane (PUR) (discontinued **)

Category : Polymer , Thermoplastic , Polyurethane, TP , Thermoplastic Polyurethane (TPUR), Glass Fiber Reinforced

Material Notes:

Description: Lastane thermoplastics are polyurethane (PUR) products. They exhibit good wear and impact resistance, even at low temperatures, noise inertness and excellent mould release. These properties make the Lastanes very suitable for wheels, gears, couplings, parts of textile machinery, shoes, and others. Reinforced Lastanes are used when good rigidity and high dimensional stability are required. Specific Notes for this Material: 40% glass fiber; very low molding shrinkage; good dimensional stability; good noise inertness; good rigidity; good impact resistance even at low temperatures. 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-LASTANE-50-G40-40-Glass-Fiber-Reinforced-Polyurethane-PUR-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.51 g/cc	0.0546 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	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	75.0 MPa	10900 psi	ISO 527
Flexural Modulus	2.30 GPa	334 ksi	ASTM D790
Izod Impact, Notched	6.00 J/cm	11.2 ft-lb/in	ASTM D256
	2.00 J/cm	3.75 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	4.00 J/cm	7.49 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
Charpy Impact Unnotched	>= 30.0 J/cm ²	>= 143 ft-lb/in ²	DIN 53453

Mechanical Properties	6.50 J/cm ² Metric	30.9 ft-lb/in ² English	Comments
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	8.00 J/cm ²	38.1 ft-lb/in ²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	115 °C	239 °F	50°C/h 50N; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	200 - 220 °C	392 - 428 °F	
Mold Temperature	30.0 - 50.0 °C	86.0 - 122 °F	
Drying Temperature	80.0 - 100 °C	176 - 212 °F	Necessary, temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Necessary, drying time can be reduced when using vacuum ovens.

Descriptive Properties	Value	Comments
Injection Speed	medium	

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