

LATI LASTANE 50 G/25 25% Glass Fiber Reinforced Polyurethane (PUR) (Unverified Data**)

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: 25% glass fiber; low molding shrinkage; good dimensional stability; high noise inertness; fair rigidity; good impact resistance even at low temperatures; good wear resistance. 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-LASTANE-50-G25-25-Glass-Fiber-Reinforced-Polyurethane-PUR-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	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 R	77	77	ASTM D785
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ISO 527
Flexural Modulus	1.55 GPa	225 ksi	ASTM D790
Izod Impact, Notched	2.20 J/cm	4.12 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	4.20 J/cm	7.87 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	6.50 J/cm	12.2 ft-lb/in	ASTM D256

Mechanical Properties	@Temperature 23.0 °C Metric	@Temperature 73.4 °F English	Comments
Charpy Impact Unnotched	13.5 J/cm ²	64.2 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	15.0 J/cm ²	71.4 ft-lb/in ²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	>= 30.0 J/cm ²	>= 143 ft-lb/in ²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	110 °C	230 °F	50°C/h 50N; ISO 306

Electrical Properties	Metric	English	Comments
Dielectric Strength	24.0 kV/mm	610 kV/in	IEC 243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	525 V	525 V	IEC 112

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
Heat Resistance - Ball Test (125°C)	N	IEC 335
Heat Resistance - Ball Test (165°C)	N	IEC 335
Injection Speed	medium	

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