

## LATI LASTANE 50 High Impact Polyurethane (PUR) (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polyurethane, TP

### 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: Average rigidity version; Shore A 93 and Shore D 50 hardness; good flowability; high noise inertness; good wear resistance; high 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-High-Impact-Polyurethane-PUR-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_LATI-LASTANE-50-High-Impact-Polyurethane-PUR-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.45 %	0.45 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0075 cm/cm	0.0075 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0075 cm/cm	0.0075 in/in	LATI

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	35.0 MPa	5080 psi	ISO 527
Flexural Modulus	0.0850 GPa	12.3 ksi	ASTM D790
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	NB	NB	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	ASTM D256
	NB	NB	
	@Temperature 23.0 °C	@Temperature 73.4 °F	ASTM D256
Charpy Impact Unnotched	>= 30.0 J/cm <sup>2</sup>	>= 143 ft-lb/in <sup>2</sup>	DIN 53453

Mechanical Properties	@Temperature -20.0 °C Metric	@Temperature -4.00 °F English	Comments
	>= 30.0 J/cm <sup>2</sup>	>= 143 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	>= 30.0 J/cm <sup>2</sup>	>= 143 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Electrical Properties	Metric	English	Comments
Dielectric Strength	26.0 kV/mm	660 kV/in	IEC 243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	600 V	600 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	195 - 215 °C	383 - 419 °F	
Mold Temperature	20.0 - 40.0 °C	68.0 - 104 °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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