

LASTANE 50

LATI INDUSTRIA TERMOPLASTICI SPA - *Thermoplastic Polyurethane Elastomer*

General Information

Product Description

Product made of Thermoplastic Polyurethane (TPU). Unfilled. Very good noise reduction. Good impact resistance even at low temperature. PFAS-free product.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Features	• PFAS Free

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.23	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.90 to 1.2	%	
Flow : 0.0787 in	0.90 to 1.2	%	
Water Absorption ³ (Saturation, 73°F)	0.40	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	71100	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	580	psi	ISO 527-2/5
Tensile Stress (Break, 73°F)	No Break		ISO 527-2/5
Tensile Strain (Yield, 73°F)	10	%	ISO 527-2/5
Tensile Strain (Break, 73°F)	> 50	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	No Break		ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179/1eU
Hardness	Nominal Value	Unit	Test Method
Shore Hardness			ISO 7619-1
Shore A	90		
Shore D	50		
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	212	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	8.3E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	8.6E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	610	V/mil	ASTM D149

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60 MPa

³ in air

