LASTANE 50 G/25

LATI INDUSTRIA TERMOPLASTICI SPA - *Thermoplastic Polyurethane Elastomer*

General Information

Product Description

Compound based on Thermoplastic Polyurethane (TPU). Glass fibres. Very good noise reduction. Good impact resistance even at low temperature. PFAS-free product.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Features	• PFAS Free		

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.38	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.90 to 1.2	%	
Flow : 0.0787 in	0.45 to 0.75	%	
Water Absorption [3] (Saturation, 73°F)	0.30	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	160000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	4350	psi	ISO 527-2/5
Tensile Stress (Break, 73°F)	7250	psi	ISO 527-2/5
Tensile Strain (Yield, 73°F)	2.8	%	ISO 527-2/5
Tensile Strain (Break, 73°F)	4.5	%	ISO 527-2/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	45	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	122	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	115	°F	ISO 75-2/A
Vicat Softening Temperature	230	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.8E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	4.4E-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))	560	V/mil	ASTM D149
Comparative Tracking Index [4] (Solution A)	600	V	IEC 60112

Notes

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

[2] 60 MPa

[3] in air

[4] Without surfactant