LATILUB 66-01M G/50

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 66*

General Information

Product Description			
Self-lubricating product based on Polyamide 66 (PA 66). Molybdenum dysulphide. Glass fibres. PFAS-free product.			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• Molybdenum Disulfide Lubricant		
Features	• Lubricated	• PFAS Free	• Self Lubricating

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.59	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.65 to 0.95	%	
Flow : 0.0787 in	0.30 to 0.60	%	
Water Absorption [3] (Saturation, 73°F)	1.4	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-1/1
73°F	2.29E+6	psi	
140°F	1.77E+6	psi	
194°F	1.31E+6	psi	
248°F	1.10E+6	psi	
302°F	957000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	31200	psi	
Break, 140°F	23900	psi	
Break, 194°F	18900	psi	
Break, 248°F	16000	psi	
Break, 302°F	13800	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	2.1	%	
Break, 140°F	2.8	%	
Break, 194°F	3.3	%	
Break, 248°F	3.6	%	
Break, 302°F	3.9	%	
Coefficient of Friction [4]			Internal Method
Dynamic	0.47		
Static	0.44		
Wear Factor [5]	1300	10^-10 in³·min/ft·lb·hr	Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	5.2	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	36	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	500	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	491	°F	ISO 75-2/A
Vicat Softening Temperature	482	°F	ISO 306/B120

CLTE - Flow (86 to 212°F)	1.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.5E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	ASTM D257

Notes

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

[2] 60 MPa

[3] in air

[4] ISO 7148-2 (speed 0.126 m/s, load 10N)

[5] ISO 7148-2 (speed 0.126 m/s, load 10N, path length 13.6km)