

LATILUB 57T-10T Y/15

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 9T*

General Information

Product Description

Self-lubricating product based on Special semi-aromatic polyamide (PA9T). PTFE. Aramid fibres.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Aramid Fiber
Additive	• PTFE Lubricant
Features	• High Heat Resistance • Lubricated • Self Lubricating
Uses	• High Temperature Applications

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.22	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	1.4 to 1.8	%	
Flow : 0.0787 in	1.3 to 1.7	%	
Water Absorption ³ (Saturation, 73°F)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	406000	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	7980	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	2.3	%	ISO 527-2/5
Coefficient of Friction ⁴			Internal Method
Dynamic	0.27		
Static	0.23		
Wear Factor ⁵	300	10 ⁻⁴ in ³ ·min/ft·lb·hr	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	1.0	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	5.7	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	473	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	293	°F	ISO 75-2/A
Vicat Softening Temperature	491	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	3.3E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.3E-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

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)

