

LATILUB 57D-15T G/30

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyphthalamide*
General Information
Product Description

Self-lubricating product based on Semi-aromatic polyamide (PPA). PTFE. Glass fibres.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass 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)	1.55	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.80 to 1.0	%	
Flow : 0.0787 in	0.35 to 0.55	%	
Water Absorption ³ (Saturation, 73°F)	0.75	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.45E+6	psi	
140°F	1.45E+6	psi	
194°F	1.45E+6	psi	
248°F	1.10E+6	psi	
302°F	566000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	27600	psi	
Break, 140°F	25400	psi	
Break, 194°F	21000	psi	
Break, 248°F	13800	psi	
Break, 302°F	7980	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	2.3	%	
Break, 140°F	2.6	%	
Break, 194°F	2.7	%	
Break, 248°F	3.3	%	
Break, 302°F	6.0	%	
Coefficient of Friction ⁴			Internal Method
Dynamic	0.32		
Static	0.28		
Wear Factor ⁵	400	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	3.8	ft·lb/in ²	
73°F	4.3	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	24	ft·lb/in ²	



73°F		29 ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	527	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	491	°F	ISO 75-2/A
Vicat Softening Temperature	491	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.8E-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))	580	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)

