

LATILUB 88/10-15T K/30

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

Self-lubricating product based on Polyetheretherketone (PEEK). PTFE. Carbon fibres. Intrinsically flame retardant. High stiffness.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.48	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.95 to 1.3	%	
Flow : 0.0787 in	0.15 to 0.30	%	
Water Absorption ³ (Saturation, 73°F)	0.060	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	3.31E+6	psi	
140°F	3.19E+6	psi	
194°F	2.90E+6	psi	
248°F	2.55E+6	psi	
302°F	1.91E+6	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	30500	psi	
Break, 140°F	25400	psi	
Break, 194°F	24700	psi	
Break, 248°F	21800	psi	
Break, 302°F	16700	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.6	%	
Break, 140°F	1.6	%	
Break, 194°F	1.6	%	
Break, 248°F	1.8	%	
Break, 302°F	2.8	%	
Coefficient of Friction ⁴			Internal Method
Dynamic	0.30		
Static	0.26		
Wear Factor ⁵	420	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	3.3	ft·lb/in ²	
73°F	3.8	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU



-4°F		17 ft·lb/in ²	
73°F		19 ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	644	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	626	°F	ISO 75-2/A
Vicat Softening Temperature	644	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.4E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- 6		2.8 Btu·in/hr/ft ² /°F	
-- 7		4.9 Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	51	V/mil	ASTM D149
Comparative Tracking Index ⁸ (Solution A)	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.12 in		V-0	
Glow Wire Flammability Index (0.08 in)	1760	°F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.08 in)	1520	°F	IEC 60695-2-13

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)

⁶ through plane

⁷ in plane

⁸ without surfactant

