

LATILUB 88/10-10T Y/10

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

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

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Aramid 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)	1.35	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.85 to 1.2	%	
Flow : 0.0787 in	0.80 to 1.1	%	
Water Absorption ³ (Saturation, 73°F)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	537000	psi	
140°F	522000	psi	
194°F	493000	psi	
248°F	479000	psi	
302°F	435000	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	10900	psi	
Yield, 140°F	10200	psi	
Yield, 194°F	8700	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	10200	psi	
Break, 140°F	10200	psi	
Break, 194°F	9430	psi	
Break, 248°F	7250	psi	
Break, 302°F	5800	psi	
Tensile Strain			ISO 527-2/5
Yield, 73°F	4.0	%	
Yield, 140°F	3.5	%	
Yield, 194°F	3.1	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	6.0	%	
Break, 140°F	5.5	%	
Break, 194°F	5.2	%	
Break, 248°F	2.6	%	
Break, 302°F	2.2	%	

 Coefficient of Friction ⁴

Internal Method



Dynamic	0.25		
Static	0.21		
Wear Factor ⁵	350	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	2.1	ft·lb/in ²	
73°F	2.1	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	19	ft·lb/in ²	
73°F	19	ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	338	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	302	°F	ISO 75-2/A
Vicat Softening Temperature	482	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	3.9E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.9E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- ⁶	2.1	Btu·in/hr/ft ² /°F	
-- ⁷	2.1	Btu·in/hr/ft ² /°F	
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 ⁸ (Solution A)	175	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
Oxygen Index	35	%	ASTM D2863

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

