

LATILUB 88/50-20GRT K/10

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

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

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Carbon Fiber		
Additive	• PTFE + Graphite 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)	1.42	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.60 to 0.90	%	
Flow : 0.0787 in	0.25 to 0.40	%	
Water Absorption ³ (Saturation, 73°F)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.74E+6	psi	
140°F	1.71E+6	psi	
194°F	1.54E+6	psi	
248°F	1.48E+6	psi	
302°F	1.09E+6	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	21000	psi	
Break, 140°F	19600	psi	
Break, 194°F	17400	psi	
Break, 248°F	14500	psi	
Break, 302°F	11600	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	2.3	%	
Break, 140°F	2.8	%	
Break, 194°F	2.9	%	
Break, 248°F	3.2	%	
Break, 302°F	5.8	%	
Coefficient of Friction ⁴			Internal Method
Dynamic	0.27		
Static	0.22		
Wear Factor ⁵	370	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	2.9	ft·lb/in ²	
73°F	3.3	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU



-4°F		17 ft·lb/in ²	
73°F		17 ft·lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	590	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	581	°F	ISO 75-2/A
Vicat Softening Temperature	590	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	5.6E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	1.7E-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+9	ohms	ASTM D257
Volume Resistivity	1.0E+9	ohms·cm	ASTM D257
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

