

**LATILUB 88/50-20T**

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

Self-lubricating product based on Polyetheretherketone (PEEK). PTFE. Inherently flame retardant.

**General**

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

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.39	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	1.0 to 1.4	%	
Flow : 0.0787 in	0.90 to 1.3	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	0.080	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	508000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	11600	psi	ISO 527-2/5
Tensile Stress (Break, 73°F)	10900	psi	ISO 527-2/5
Tensile Strain (Yield, 73°F)	7.0	%	ISO 527-2/5
Tensile Strain (Break, 73°F)	30	%	ISO 527-2/5
Coefficient of Friction <sup>4</sup>			Internal Method
Dynamic	0.22		
Static	0.18		
Wear Factor <sup>5</sup>	620	10 <sup>-10</sup> in <sup>3</sup> ·min/ft·lb·hr	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179/1eU
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)	311	°F	ISO 75-2/A
Vicat Softening Temperature	518	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	4.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	4.2E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- <sup>6</sup>	2.1	Btu·in/hr/ft <sup>2</sup> /°F	
-- <sup>7</sup>	2.1	Btu·in/hr/ft <sup>2</sup> /°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 <sup>8</sup> (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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60 MPa

<sup>3</sup> in air

<sup>4</sup> ISO 7148-2 (speed 0.126 m/s, load 10N)

<sup>5</sup> ISO 7148-2 (speed 0.126 m/s, load 10N, path length 13.6km)

<sup>6</sup> through plane

<sup>7</sup> in plane

<sup>8</sup> without surfactant

