

**LATILUB 66-15T K/30**

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 66*
**General Information**
**Product Description**

Self-lubricating product based on Polyamide 66 (PA 66). PTFE. Carbon fibres. High stiffness.

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Carbon Fiber
Additive	• PTFE Lubricant
Features	• Lubricated • Self Lubricating

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

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.36	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	0.50 to 0.80	%	
Flow : 0.0787 in	0.10 to 0.30	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	1.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	3.19E+6	psi	
140°F	2.96E+6	psi	
194°F	2.18E+6	psi	
248°F	1.67E+6	psi	
302°F	1.38E+6	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	31900	psi	
Break, 140°F	26100	psi	
Break, 194°F	18900	psi	
Break, 248°F	16000	psi	
Break, 302°F	13800	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.9	%	
Break, 140°F	2.5	%	
Break, 194°F	3.2	%	
Break, 248°F	3.5	%	
Break, 302°F	3.8	%	
Coefficient of Friction <sup>4</sup>			Internal Method
Dynamic	0.30		
Static	0.25		
Wear Factor <sup>5</sup>	400	10 <sup>-10</sup> in <sup>3</sup> ·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 <sup>2</sup>	
73°F	3.8	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	17	ft·lb/in <sup>2</sup>	
73°F	21	ft·lb/in <sup>2</sup>	



Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	500	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	473	°F	ISO 75-2/A
Vicat Softening Temperature	482	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	8.3E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.5E-5	in/in/°F	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	100	V/mil	ASTM D149

#### 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)

