

LATILUB 66-20ST K/30

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

Self-lubricating product based on Polyamide 66 (PA 66). Silicone / 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 + Silicone Lubricant
Features	• Lubricated • Self Lubricating

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.38	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.55 to 0.85	%	
Flow : 0.0787 in	0.10 to 0.35	%	
Water Absorption ³ (Saturation, 73°F)	1.5	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	3.25E+6	psi	
140°F	2.67E+6	psi	
194°F	1.81E+6	psi	
248°F	1.42E+6	psi	
302°F	1.09E+6	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	26100	psi	
Break, 140°F	20300	psi	
Break, 194°F	15200	psi	
Break, 248°F	12300	psi	
Break, 302°F	11600	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.7	%	
Break, 140°F	2.6	%	
Break, 194°F	3.2	%	
Break, 248°F	3.5	%	
Break, 302°F	3.8	%	
Coefficient of Friction ⁴			Internal Method
Dynamic	0.26		
Static	0.22		
Wear Factor ⁵	400	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	3.8	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)	500	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	473	°F	ISO 75-2/A
Vicat Softening Temperature	473	°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

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)

