

LATILUB 66-20T G/20

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

Self-lubricating product based on Polyamide 66 (PA 66). PTFE. Glass fibres.

General

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

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.44	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.90 to 1.2	%	
Flow : 0.0787 in	0.40 to 0.70	%	
Water Absorption ³ (Saturation, 73°F)	1.8	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	928000	psi	
140°F	653000	psi	
194°F	450000	psi	
248°F	421000	psi	
302°F	392000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	18100	psi	
Break, 140°F	11600	psi	
Break, 194°F	10900	psi	
Break, 248°F	10200	psi	
Break, 302°F	9430	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	3.1	%	
Break, 140°F	5.2	%	
Break, 194°F	7.0	%	
Break, 248°F	8.0	%	
Break, 302°F	9.0	%	
Coefficient of Friction ⁴			Internal Method
Dynamic	0.34		
Static	0.27		
Wear Factor ⁵	420	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	29	ft·lb/in ²	ISO 179/1eU
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)	464	°F	ISO 75-2/A
Vicat Softening Temperature	482	°F	ISO 306/B120



CLTE - Flow (86 to 212°F)	2.2E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	4.2E-5	in/in/°F	ISO 11359-2
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))	690	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.030 in		HB	
0.06 in		HB	
0.12 in		HB	
Glow Wire Flammability Index (0.030 in)	1340	°F	IEC 60695-2-12
Glow Wire Ignition Temperature (0.030 in)	1380	°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)

