

LATILUB 95-20T G/20

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

Self-lubricating product based on Polysulphone (PSU). PTFE. Glass fibres. Intrinsically flame retardant.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber
Additive	• PTFE 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)	1.51	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.45 to 0.80	%	
Flow : 0.0787 in	0.20 to 0.55	%	
Water Absorption			ISO 62
Saturation, 73°F ³	0.60	%	
Saturation, 73°F ⁴	0.20	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	914000	psi	
140°F	899000	psi	
194°F	870000	psi	
248°F	841000	psi	
302°F	812000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	11600	psi	
Break, 140°F	10200	psi	
Break, 194°F	8700	psi	
Break, 248°F	7250	psi	
Break, 302°F	5800	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.4	%	
Break, 140°F	1.3	%	
Break, 194°F	1.3	%	
Break, 248°F	1.3	%	
Break, 302°F	1.3	%	
Coefficient of Friction ⁵			Internal Method
Dynamic	0.32		
Static	0.29		
Wear Factor ⁶	2200	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.9	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	9.5	ft·lb/in ²	ISO 179/1eU



Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	356	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	347	°F	ISO 75-2/A
Vicat Softening Temperature	356	°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)	1.7E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- 7	1.4	Btu·in/hr/ft ² /°F	
-- 8	2.1	Btu·in/hr/ft ² /°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))	460	V/mil	ASTM D149
Comparative Tracking Index ⁹ (Solution A)	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in	V-1		
0.12 in	V-0		
Oxygen Index	29	%	ASTM D2863

Notes

¹ Typical properties: these are not to be construed as specifications.

² 60 MPa

³ in water

⁴ in air

⁵ ISO 7148-2 (speed 0.126 m/s, load 10N)

⁶ ISO 7148-2 (speed 0.126 m/s, load 10N, path length 13.6km)

⁷ in plane

⁸ through plane

⁹ without surfactant

