

LASULF G/30

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

Compound based on Polysulphone (PSU). Glass fibres. Intrinsically flame retardant. Low smoke density and low toxicity index. Very high dimensional stability. PFAS-free product.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber
Features	• Flame Retardant • PFAS Free

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.47	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.40 to 0.60	%	
Flow : 0.0787 in	0.20 to 0.40	%	
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	1.28E+6	psi	
140°F	1.26E+6	psi	
194°F	1.23E+6	psi	
248°F	1.15E+6	psi	
302°F	1.00E+6	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	16000	psi	
Break, 140°F	14500	psi	
Break, 194°F	13100	psi	
Break, 248°F	11600	psi	
Break, 302°F	9430	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.7	%	
Break, 140°F	1.6	%	
Break, 194°F	1.5	%	
Break, 248°F	1.5	%	
Break, 302°F	1.4	%	
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)	14	ft·lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	365	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	356	°F	ISO 75-2/A
Vicat Softening Temperature	365	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.5E-5	in/in/°F	ISO 11359-2



Thermal Conductivity			ASTM E1461
-- 5		1.4 Btu·in/hr/ft ² /°F	
-- 6		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))	480	V/mil	ASTM D149
Comparative Tracking Index ⁷ (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	
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in		1760 °F	
0.08 in		1760 °F	
Oxygen Index		32 %	ASTM D2863

Notes

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

² 60 MPa

³ in water

⁴ in air

⁵ in plane

⁶ through plane

⁷ without surfactant

