

LASULF LASULF

LATI INDUSTRIA TERMOPLASTICI SPA - *Polysulfone*

General Information

Product Description

Product made of Polysulphone (PSU). Unfilled. 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	
Features	• PFAS Free		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.24	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.65 to 0.85	%	
Flow : 0.0787 in	0.60 to 0.80	%	
Water Absorption			ISO 62
Saturation, 73°F ³	0.80	%	
Saturation, 73°F ⁴	0.30	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	377000	psi	
140°F	334000	psi	
194°F	319000	psi	
248°F	290000	psi	
302°F	276000	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	2900	psi	
Yield, 140°F	2610	psi	
Yield, 194°F	2320	psi	
Yield, 248°F	2030	psi	
Yield, 302°F	1020	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	10900	psi	
Break, 140°F	10200	psi	
Break, 194°F	8700	psi	
Break, 248°F	7250	psi	
Break, 302°F	5080	psi	
Tensile Strain			ISO 527-2/5
Yield, 73°F	0.80	%	
Yield, 140°F	0.70	%	
Yield, 194°F	0.60	%	
Yield, 248°F	0.60	%	
Yield, 302°F	0.30	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	> 50	%	
Break, 140°F	> 50	%	
Break, 194°F	> 50	%	



Break, 248°F	> 50 %		
Break, 302°F	> 50 %		
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	0.71	ft·lb/in ²	
73°F	2.4	ft·lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	No Break		
73°F	No Break		
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)	329	°F	ISO 75-2/A
Vicat Softening Temperature	347	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	3.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.1E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- 5	1.4	Btu·in/hr/ft ² /°F	
-- 6	1.4	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))	430	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		HB	
0.12 in		HB	
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in	1760	°F	
0.08 in	1760	°F	
Oxygen Index	26	%	ASTM D2863

Notes

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

² 60 MPa

³ in water

⁴ in air

⁵ through plane

⁶ in plane

⁷ without surfactant

