

**LASULF G/20**

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polysulfone*

## General Information

**Product Description**

Compound based on Polysulphone (PSU). Glass fibres. Inherently 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 • Asia Pacific • Latin America • North America
Filler / Reinforcement	• Glass Fiber
Features	• Flame Retardant • PFAS Free

 Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.37	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	0.45 to 0.75	%	
Flow : 0.0787 in	0.30 to 0.55	%	
Water Absorption			ISO 62
Saturation, 73°F <sup>3</sup>	0.65	%	
Saturation, 73°F <sup>4</sup>	0.22	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	986000	psi	
140°F	943000	psi	
194°F	856000	psi	
248°F	798000	psi	
302°F	769000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	15200	psi	
Break, 140°F	13100	psi	
Break, 194°F	11600	psi	
Break, 248°F	10900	psi	
Break, 302°F	8700	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	2.3	%	
Break, 140°F	1.9	%	
Break, 194°F	1.9	%	
Break, 248°F	1.8	%	
Break, 302°F	1.9	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	14	ft·lb/in <sup>2</sup>	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)	356	°F	ISO 75-2/A
Vicat Softening Temperature	365	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.4E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.8E-5	in/in/°F	ISO 11359-2



Thermal Conductivity		ASTM E1461
-- 5	1.4 Btu·in/hr/ft <sup>2</sup> /°F	
-- 6	1.4 Btu·in/hr/ft <sup>2</sup> /°F	
<b>Electrical</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
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 <sup>7</sup> (Solution A)	125 V	IEC 60112
<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60 MPa

<sup>3</sup> in water

<sup>4</sup> in air

<sup>5</sup> through plane

<sup>6</sup> in plane

<sup>7</sup> without surfactant

