

**LARTON G/40**

 LATI INDUSTRIA TERMOPLASTICI SPA - *Polyphenylene Sulfide*
**General Information**
**Product Description**

Compound based on Polyphenylene Sulphide (PPS). Glass fibres. Intrinsically flame retardant. Very good chemical resistance. Very good thermal properties. Low smoke density and low toxicity index. 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	• High Heat Resistance	• PFAS Free
Uses	• High Temperature Applications		

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.66	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	0.60 to 0.85	%	
Flow : 0.0787 in	0.20 to 0.35	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	2.18E+6	psi	
140°F	2.10E+6	psi	
194°F	1.60E+6	psi	
248°F	1.09E+6	psi	
302°F	885000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	25400	psi	
Break, 140°F	23900	psi	
Break, 194°F	21000	psi	
Break, 248°F	13800	psi	
Break, 302°F	10900	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.5	%	
Break, 140°F	1.6	%	
Break, 194°F	2.3	%	
Break, 248°F	3.2	%	
Break, 302°F	3.4	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	4.3	ft·lb/in <sup>2</sup>	
73°F	4.8	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	13	ft·lb/in <sup>2</sup>	
73°F	14	ft·lb/in <sup>2</sup>	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	536	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	518	°F	ISO 75-2/A



Vicat Softening Temperature	500 °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)	1.9E-5 in/in/°F	ISO 11359-2
Thermal Conductivity		ASTM E1461
-- 4	2.1 Btu·in/hr/ft <sup>2</sup> /°F	
-- 5	2.8 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))	460 V/mil	ASTM D149
Comparative Tracking Index <sup>6</sup> (Solution A)	125 V	IEC 60112
<b>Flammability</b>	<b>Nominal Value Unit</b>	<b>Test Method</b>
Flame Rating		UL 94
0.030 in	V-0	
0.06 in	V-0	
0.12 in	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
0.04 in	1760 °F	
0.08 in	1760 °F	
Glow Wire Ignition Temperature		IEC 60695-2-13
0.04 in	1430 °F	
0.08 in	1430 °F	
Oxygen Index	44 %	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 air

<sup>4</sup> through plane

<sup>5</sup> in plane

<sup>6</sup> Without surfactant

