

## LARTON G/40 I6

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyphenylene Sulfide*

### General Information

#### Product Description

Compound based on Polyphenylene Sulphide (PPS). Glass fibres. Intrinsically flame retardant. Modified impact properties. 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		
Additive	• Impact Modifier		
Features	• Flame Retardant	• Impact Modified	
	• 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	0.50 to 0.75	%	
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 (73°F)	2.10E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	27600	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	1.8	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	ft·lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	19	ft·lb/in <sup>2</sup>	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	527	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	500	°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
-- <sup>4</sup>	2.1	Btu·in/hr/ft <sup>2</sup> /°F	
-- <sup>5</sup>	2.8	Btu·in/hr/ft <sup>2</sup> /°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 <sup>6</sup> (Solution A)	125	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
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

