

LARTON L G/40

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

Compound based on Linear Polyphenylene Sulphide (L-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	• Linear Polymer Structure	• PFAS Free

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.66	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.60 to 0.80	%	
Flow : 0.0787 in	0.25 to 0.40	%	
Water Absorption ³ (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	2.03E+6	psi	
194°F	1.81E+6	psi	
248°F	1.19E+6	psi	
302°F	1.02E+6	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	23200	psi	
Break, 140°F	19600	psi	
Break, 194°F	16700	psi	
Break, 248°F	12300	psi	
Break, 302°F	9430	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	1.2	%	
Break, 140°F	1.3	%	
Break, 194°F	1.8	%	
Break, 248°F	1.9	%	
Break, 302°F	2.0	%	
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)	19	ft·lb/in ²	ISO 179/1eU
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	491	°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

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 2.1 Btu-in/hr/ft²/°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 ⁶ (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	

Notes

- ¹ Typical properties: these are not to be construed as specifications.
- ² 60 MPa
- ³ in air
- ⁴ through plane
- ⁵ in plane
- ⁶ without surfactant

