

LARTON GK/400

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

Compound based on Polyphenylene Sulphide (PPS). Glass fibres / Carbon 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\Carbon Fiber
Features	• Flame Retardant • High Heat Resistance • PFAS Free
Uses	• High Temperature Applications

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.61	g/cm ³	ISO 1183
Molding Shrinkage ²			ISO 294-4
Across Flow : 0.0787 in	0.55 to 0.80	%	
Flow : 0.0787 in	0.10 to 0.20	%	
Water Absorption ³ (Saturation, 73°F)	0.020	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (73°F)	3.19E+6	psi	ISO 527-1/1
Tensile Stress (Break, 73°F)	26100	psi	ISO 527-2/5
Tensile Strain (Break, 73°F)	1.0	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.3	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	14	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	500	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	2.8E-6	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	2.2E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- ⁴	2.8	Btu·in/hr/ft ² /°F	
-- ⁵	4.2	Btu·in/hr/ft ² /°F	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	76	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

