

LATI LARTON G/50 50% Glass Fiber Filled Polyphenylene sulfide (PPS) (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 50% Glass Fiber Filler

Material Notes:

Description: Larton thermoplastics are polyphenylene sulfide (PPS) products. They are distinguished by a group of very interesting properties combined with easy moldability. Larton parts feature: excellent dimensional stability (with temperatures reaching 200°-220°C), excellent resistance to thermal ageing, high rigidity, low thermal expansion, and finally, excellent resistance to chemicals, even to very aggressive agents. Larton compounds are intrinsically self-extinguishing: they maintain UL94 V0 rating also in thin-walled products without requiring any special additive. Glass fiber reinforced Lartons require accurate design to reduce differential shrinkage and to minimize deformation of parts, but to a lower extent than with other semi-crystalline resins. Specific Notes for this Material: UL94V-0 self-extinguishing, without halogens or phosphorus; low fume optical density and toxicity; 50% glass fiber; fair flowability; good dimensional stability; high rigidity; low coefficient of linear thermal expansion; excellent characteristics even at high temperature; excellent chemical resistance. Disclaimer from LATI: This document contains information based on average values as obtained from the results of laboratory tests and observations made on LATI materials. Tested materials were injection molded, used in their natural color, and conditioned in compliance with Standard ASTM D 618, procedure A. These values refer to LATI's best technical and scientific knowledge at the moment of testing and cannot be used as a basis for the development of applications. For a better assessment of the materials, you are kindly requested to contact LATI's technical or commercial offices, which are at your disposal and will supply detailed information on the most suitable characteristics for their intended use. With reference to DPR n.224 dated May 24, 1988, issued in accordance with EC Guide-lines 85/374, LATI Industria Termoplastici S.p.A. declines all responsibility arising from an improper use of the products described in this document. All data provided by LATI.

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http://www.lookpolymers.com/polymer_LATI-LARTON-G50-50-Glass-Fiber-Filled-Polyphenylene-sulfide-PPS-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	ISO 1183
Water Absorption	0.010 %	0.010 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	LATI

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	>= 100	>= 100	ASTM D785
Tensile Strength, Ultimate	150 MPa	21800 psi	ISO 527
	94.0 MPa	13600 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	120 MPa	17400 psi	ISO 527

Mechanical Properties	@Temperature 90.0 °C Metric	@Temperature 194 °F English	Comments
	135 MPa	19600 psi	ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
	9.55 GPa	1390 ksi	ASTM D790
	@Temperature 120 °C	@Temperature 248 °F	
	14.1 GPa	2050 ksi	ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	17.45 GPa	2531 ksi	ASTM D790
	@Temperature 60.0 °C	@Temperature 140 °F	
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	1.20 J/cm ²	5.71 ft-lb/in ²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.20 J/cm ²	5.71 ft-lb/in ²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	25.0 μm/m-°C	13.9 μin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	280 °C	536 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	267 °C	513 °F	ASTM D648
Vicat Softening Point	255 °C	491 °F	50°C/h 50N; ISO 306
Flammability, UL94	V-0	V-0	

Thermal Properties	@Thickness 0.710 mm Metric	@Thickness 0.0280 in English	Comments
Oxygen Index	46 %	46 %	ISO 4589
Glow Wire Test	960 °C	1760 °F	IEC 695-2-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
	960 °C	1760 °F	IEC 695-2-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	

Electrical Properties	Metric	English	Comments
Dielectric Strength	13.0 kV/mm	330 kV/in	IEC 243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	125 V	125 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 310 °C	536 - 590 °F	
Mold Temperature	130 - 140 °C	266 - 284 °F	
Drying Temperature	130 - 140 °C	266 - 284 °F	Temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Drying time can be reduced when using vacuum ovens.

Descriptive Properties	Value	Comments
Heat Resistance - Ball Test (125°C)	Y	IEC 335
Heat Resistance - Ball Test (165°C)	Y	IEC 335
Injection Speed	medium - high	
Needle Burner Test	Y	1.47 mm
	Y	3.05 mm

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