

## LATI LARTON GCE/60 60% Mixed Glass Fiber and Special Mineral Filled Polyphenylene sulfide (PPS) (discontinued)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), Mineral/Glass-Fiber Filled

### 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; 60% mixed glass fibers and special mineral fillers; excellent dimensional stability; high rigidity; low thermal linear expansion coefficient; excellent properties at high temperature; excellent chemical strength; very high electrical properties compared to reinforced versions. 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.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LATI-LARTON-GCE60-60-Mixed-Glass-Fiber-and-Special-Mineral-Filled-Polyphenylene-sulfide-PPS-nbspdiscontinued.php](http://www.lookpolymers.com/polymer_LATI-LARTON-GCE60-60-Mixed-Glass-Fiber-and-Special-Mineral-Filled-Polyphenylene-sulfide-PPS-nbspdiscontinued.php)

Physical Properties	Metric	English	Comments
Density	1.90 g/cc	0.0686 lb/in <sup>3</sup>	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	0.0030 cm/cm	0.0030 in/in	LATI

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	>= 100	>= 100	ASTM D785
Tensile Strength, Ultimate	95.0 MPa	13800 psi	ISO 527
Flexural Modulus	18.0 GPa	2610 ksi	ASTM D790
Izod Impact, Notched	0.450 J/cm @Temperature -40.0 °C	0.843 ft-lb/in @Temperature -40.0 °F	ASTM D256

Mechanical Properties	Metric /cm	English -lb/in	Comments
	@Temperature -20.0 °C	@Temperature -4.00 °F	ASTM D256
	0.500 J/cm	0.937 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.700 J/cm <sup>2</sup>	3.33 ft-lb/in <sup>2</sup>	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	17.0 µm/m-°C	9.44 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	278 °C	532 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	257 °C	495 °F	ASTM D648
Vicat Softening Point	250 °C	482 °F	50°C/h 50N; ISO 306
Flammability, UL94	V-0	V-0	
	@Thickness 0.710 mm	@Thickness 0.0280 in	
Oxygen Index	45 %	45 %	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	19.0 kV/mm	483 kV/in	IEC 243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	150 V	150 V	IEC 112

Processing Properties	Metric	English	Comments
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Processing Properties	Metric <sup>290 - 310 °C</sup>	English <sup>554 - 590 °F</sup>	Comments
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

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China