

LATI LARTON G/30 30% Glass Fiber Filled Polyphenylene sulfide (PPS) (discontinued **)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 30% 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; 30% glass fiber; good flowability; good dimensional stability; good rigidity; low thermal linear expansion coefficient; excellent characteristics 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.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LATI-LARTON-G30-30-Glass-Fiber-Filled-Polyphenylene-sulfide-PPS-nbspdiscontinued-.php

| Physical Properties | Metric | English | Comments |
|-----------------------------------|--------------|---------------------------|-----------------|
| Density | 1.55 g/cc | 0.0560 lb/in ³ | ISO 1183 |
| Water Absorption | 0.010 % | 0.010 % | at 23°C; ISO 62 |
| Linear Mold Shrinkage | 0.0035 cm/cm | 0.0035 in/in | LATI |
| Linear Mold Shrinkage, Transverse | 0.0065 cm/cm | 0.0065 in/in | LATI |

| Mechanical Properties | Metric | English | Comments |
|----------------------------|---------------------|---------------------|-----------|
| Hardness, Rockwell M | 99 | 99 | ASTM D785 |
| Tensile Strength, Ultimate | 132 MPa | 19100 psi | ISO 527 |
| | 95.0 MPa | 13800 psi | ISO 527 |
| | @Temperature 120 °C | @Temperature 248 °F | |
| | 115 MPa | 16700 psi | ISO 527 |

| Mechanical Properties | @Temperature 90.0 °C Metric | @Temperature 194 °F English | Comments |
|-------------------------|--------------------------------|--------------------------------|-----------|
| | 118 MPa | 17100 psi | ISO 527 |
| | @Temperature 60.0 °C | @Temperature 140 °F | |
| Flexural Modulus | 11.0 GPa | 1600 ksi | ASTM D790 |
| | 6.50 GPa | 943 ksi | ASTM D790 |
| | @Temperature 120 °C | @Temperature 248 °F | |
| | 8.50 GPa | 1230 ksi | ASTM D790 |
| | @Temperature 90.0 °C | @Temperature 194 °F | |
| | 10.5 GPa | 1520 ksi | ASTM D790 |
| | @Temperature 60.0 °C | @Temperature 140 °F | |
| Izod Impact, Notched | 0.750 J/cm | 1.41 ft-lb/in | ASTM D256 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 0.750 J/cm | 1.41 ft-lb/in | ASTM D256 |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| | 0.750 J/cm | 1.41 ft-lb/in | ASTM D256 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |
| Charpy Impact Unnotched | 1.60 J/cm ² | 7.61 ft-lb/in ² | DIN 53453 |
| | @Temperature -20.0 °C | @Temperature -4.00 °F | |
| | 1.60 J/cm ² | 7.61 ft-lb/in ² | DIN 53453 |
| | @Temperature -40.0 °C | @Temperature -40.0 °F | |
| | 1.60 J/cm ² | 7.61 ft-lb/in ² | DIN 53453 |
| | @Temperature 23.0 °C | @Temperature 73.4 °F | |

| Thermal Properties | Metric | English | Comments |
|---|----------------------|----------------------|---------------------|
| CTE, linear | 28.0 µm/m-°C | 15.6 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) | 263 °C | 505 °F | ASTM D648 |
| Vicat Softening Point | 244 °C | 471 °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 | 42 % | 42 % | 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 |
|-----------------------|--------------|--------------|---|
| Melt Temperature | 280 - 300 °C | 536 - 572 °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 |

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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