LATI LARTON K/30 30% Carbon Fiber Reinforced Polyphenylene sulfide (PPS) (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 30% Carbon 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% carbon fiber; good flowability; good dimensional stability; high rigidity; low thermal linear expansion coefficient; excellent properties at high temperature; excellent chemical strength; low specific resistance; good self-lubricating properties. 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-K30-30-Carbon-Fiber-Reinforced-Polyphenylene-sulfide-PPS-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.43 g/cc	0.0517 lb/in³	ISO 1183
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	185 MPa	26800 psi	ISO 527
Flexural Modulus	21.0 GPa	3050 ksi	ASTM D790
Izod Impact, Notched	0.300 J/cm @Temperature 23.0 °C	0.562 ft-lb/in @Temperature 73.4 °F	ASTM D256
	1.40 J/cm²	6.66 ft-lb/in²	

Mechanical Properties	Metric	English	Comments
Charpy Impact Unnotched	@Temperature 23.0 °C	@Temperature 73.4 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	282 °C	540 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	270 °C	518 °F	ASTM D648
Vicat Softening Point	256 °C	493 °F	50°C/h 50N; ISO 306

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	

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