

LATI LASULF G/30 30% Glass Reinforced Polysulfone (PSU) (Unverified Data**)

Category: Polymer, Thermoplastic, Polysulfone (PSU), Polysulfone, 30% Glass Fiber Reinforced

Material Notes:

Description: Lasulf products are composed of polysulfone (PSU). They feature good thermal and mechanical properties such as excellent toughness, even at low temperatures, excellent dimensional stability low water absorption and exceptional resistance to hydrolysis allow their application also in case of very hot water. Reinforced Lasulfs are among the few thermoplastics guaranteeing good mechanical properties even at high temperatures. Resistance to creep is excellent, thermal resistance is outstanding: continuous no-load working temperature can reach 160°C (200°C for short periods of time). The Lasulfs are self-extinguishing without adding flame retardants. Specific Notes for this Material: UL94V-0 self-extinguishing, without halogens or phosphorus; low fume optical density and toxicity; 30% glass fiber; good mechanical properties, even at high temperatures; high rigidity; excellent dimensional stability; low coefficient of linear thermal expansion; excellent thermal 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-LASULF-G30-30-Glass-Reinforced-Polysulfone-PSU-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 lb/in ³	ISO 1183
Water Absorption	0.18 %	0.18 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0025 cm/cm	0.0025 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0025 cm/cm	0.0025 in/in	LATI

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ASTM D785
Tensile Strength, Ultimate	127 MPa	18400 psi	ISO 527
	88.0 MPa	12800 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	100 02.
	103 MPa	14900 psi	ISO 527
	@Temperature 90.0 °C	@Temperature 194 °F	100 021
	113 MPa	16400 psi	



Mechanical Properties	Metric Weetingerature 60.0 °C	English © Peinperature 140 °F	Comments
Flexural Modulus	8.30 GPa	1200 ksi	ASTM D790
	7.85 GPa	1140 ksi	ASTM D790
	@Temperature 120 °C	@Temperature 248 °F	ASTMDT90
	8.15 GPa	1180 ksi	ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	8.20 GPa	1190 ksi	ASTM D790
	@Temperature 60.0 °C	@Temperature 140 °F	
Izod Impact, Notched	0.850 J/cm	1.59 ft-lb/in	ASTM D256
1200 Impuot, Notonea	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.850 J/cm	1.59 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.00 J/cm	1.87 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.60 J/cm ²	12.4 ft-lb/in ²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	2.60 J/cm ²	12.4 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	2.70 J/cm ²	12.8 ft-lb/in ²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments	
OTF linear	25.0 μm/m-°C	13.9 μin/in-°F	ASTM D696	
CTE, linear	@Temperature 20.0 °C	@Temperature 68.0 °F		
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	ASTM D648	
Deflection Temperature at 1.8 MPa (264 psi)	181 °C	358 °F	ASTM D648	
Vicat Softening Point	186 °C	367 °F	50°C/h 50N; ISO 306	
Flammability, UL94	V-0	V-0		
Fianiniability, OL94	@Thickness 1.50 mm	@Thickness 0.0591 in		
Oxygen Index	38 %	38 %	ISO 4589	



Thermal Properties	Metric	English	Comments	
olow time rest	@Thickness 2.00 mm	@Thickness 0.0787 in	120 030 2 1	
	960 °C	1760 °F	150,505,0,1	
	@Thickness 1.00 mm	@Thickness 0.0394 in	IEC 695-2-1	

Electrical Properties	Metric	English	Comments	
Dialogtria Strongth	18.0 kV/mm	457 kV/in	IEC 243-1	
Dielectric Strength	@Thickness 2.00 mm	@Thickness 0.0787 in	IEG 243-1	
Comparative Tracking Index	125 V	125 V	IEC 112	

Processing Properties	Metric	English	Comments
Melt Temperature	300 - 350 °C	572 - 662 °F	
Mold Temperature	120 - 130 °C	248 - 266 °F	
Drying Temperature	120 - 130 °C	248 - 266 °F	Not necessary for reinforced materials. Temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Not necessary for reinforced materials. Drying time can be reduced when using vacuum ovens.

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

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