

LATI Larton G/40 PPS, 40% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with 40% Glass Fiber Filler

Material Notes:

Polyphenylene Sulfide (PPS) based compound. Glass fibers. Very good chemical resistance. Very good thermal properties. Low smoke density and low toxicity index. Availability: Africa & Middle East; Asia Pacific; Europe; Latin America; North America. Information provided by Lati Industria Termoplastici S.p.A.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LATI-Larton-G40-PPS-40-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.67 g/cc	0.0603 lb/in ³	
Linear Mold Shrinkage, Flow	0.0020 - 0.0035 cm/cm	0.0020 - 0.0035 in/in	
Linear Mold Shrinkage, Transverse	0.0045 - 0.0065 cm/cm	0.0045 - 0.0065 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	75.0 MPa	10900 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	100 MPa	14500 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	140 MPa	20300 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	170 MPa	24700 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	185 MPa	26800 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.4 %	1.4 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.7 %	1.7 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.0 %	2.0 %	

Mechanical Properties	@Temperature 90.0 Metric °C	@Temperature 194 °F English	Comments
	3.0 %	3.0 %	
	@Temperature 120 °C	@Temperature 248 °F	
	3.4 %	3.4 %	
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	6.80 GPa	986 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	9.80 GPa	1420 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	15.0 GPa	2180 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	15.5 GPa	2250 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	16.0 GPa	2320 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	2.80 J/cm ²	13.3 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	3.00 J/cm ²	14.3 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact, Notched	0.900 J/cm ²	4.28 ft-lb/in ²	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 °C	428 °F	
Deflection Temperature at 0.46 MPa (66 psi)	280 °C	536 °F	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	255 Â°C @Load 5.00 kg	491 Â°F @Load 11.0 lb	
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	
	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	
Oxygen Index	44 %	44 %	
Glow Wire Test	960 Â°C @Thickness 1.00 mm	1760 Â°F @Thickness 0.0394 in	GWFI/GWT
	960 Â°C @Thickness 2.00 mm	1760 Â°F @Thickness 0.0787 in	GWFI/GWT

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	125 V	125 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	290 - 310 Â°C	554 - 590 Â°F	
Mold Temperature	130 - 140 Â°C	266 - 284 Â°F	
Drying Temperature	130 - 150 Â°C	266 - 302 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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