

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

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

Material Notes:

Linear Polyphenylene Sulfide (L-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-L-G40-L-PPS-40-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	
Linear Mold Shrinkage, Flow	0.0025 - 0.0040 cm/cm	0.0025 - 0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	90.0 MPa	13100 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	120 MPa	17400 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	140 MPa	20300 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	160 MPa	23200 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.2 %	1.2 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.3 %	1.3 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.8 %	1.8 %	

Mechanical Properties	@Temperature 90.0 Metric °C	@Temperature 194 °F English	Comments
	2.2 %	2.2 %	
	@Temperature 120 °C	@Temperature 248 °F	
	2.5 %	2.5 %	
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	7.20 GPa	1040 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	8.40 GPa	1220 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	12.2 GPa	1770 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	14.8 GPa	2150 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	17.0 GPa	2470 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	3.00 J/cm ²	14.3 ft-lb/in ²	
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	200 °C	392 °F	
Deflection Temperature at 0.46 MPa (66 psi)	280 °C	536 °F	
Deflection Temperature at 1.8 MPa (264 psi)	270 °C	518 °F	
Vicat Softening Point	255 °C	491 °F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	

Thermal Properties	Metric	English	Comments
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@Thickness 0.750 mm

@Thickness 0.0295 in

Processing Properties	Metric	English	Comments
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Melt Temperature

290 - 310 Å°C

554 - 590 Å°F

Mold Temperature

130 - 140 Å°C

266 - 284 Å°F

Drying Temperature

130 - 150 Å°C

266 - 302 Å°F

@Time 10800 sec

@Time 3.00 hour

Descriptive Properties	Value	Comments
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ISO Shrinkage - Pressure

60 MPa

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