

LATI Larton GCE/650 PPS, Glass/Mineral Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS), Mineral/Glass-Fiber Filled

Material Notes:

Polyphenylene Sulfide (PPS) based compound. Glass fibers / Mineral filler. 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-GCE650-PPS-GlassMineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.97 g/cc	0.0712 lb/in ³	
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0015 - 0.0030 cm/cm	0.0015 - 0.0030 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	90.0 MPa	13100 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	105 MPa	15200 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	125 MPa	18100 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	145 MPa	21000 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	165 MPa	23900 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	0.80 %	0.80 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.90 %	0.90 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.0 %	1.0 %	

Mechanical Properties	Metric	English	Comments
	1.6 %	1.6 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.3 %	2.3 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	9.40 GPa	1360 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	14.2 GPa	2060 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	20.8 GPa	3020 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	22.0 GPa	3190 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	23.0 GPa	3340 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	1.50 J/cmÂ²	7.14 ft-lb/inÂ²	
Charpy Impact, Notched	0.550 J/cmÂ²	2.62 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	225 Â°C	437 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	285 Â°C	545 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	275 Â°C	527 Â°F	
Vicat Softening Point	260 Â°C	500 Â°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 @ Thickness 0.750 mm	English @ Thickness 0.0295 in	Comments
Oxygen Index	45 %	45 %	
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	150 V	150 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	290 - 330 Â°C	554 - 626 Â°F	
Mold Temperature	130 - 140 Â°C	266 - 284 Â°F	
Drying Temperature	130 - 150 Â°C @Time 10800 sec	266 - 302 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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