

LATI Laticonther 80 GCE/650 PPS, Glass/Mineral Reinforced

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

Material Notes:

High thermal conductivity product based on Polyphenylene Sulfide (PPS). Glass fibers / Mineral filler. 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-Laticonther-80-GCE650-PPS-GlassMineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.91 g/cc	0.0690 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	60.0 MPa	8700 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	75.0 MPa	10900 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	115 MPa	16700 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	130 MPa	18900 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	145 MPa	21000 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	
	1.1 %	1.1 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.2 %	1.2 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	

Mechanical Properties	Metric	English	Comments
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.5 %	2.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	8.00 GPa	1160 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	13.0 GPa	1890 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	18.1 GPa	2630 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	20.0 GPa	2900 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	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.900 W/m-K	6.25 BTU-in/hr-ftÂ²-Â°F	Longitudinal
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	

Processing Properties	Metric	English	Comments
Melt Temperature	290 - 320 Â°C	554 - 608 Â°F	
Mold Temperature	130 - 140 Â°C	266 - 284 Â°F	

Processing Properties	130 - 150 Å°C Metric	266 - 302 Å°F English	Comments
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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