

LATI Larpeek 10 G/50 PEEK, 50% Glass Fiber Reinforced

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Glass Fiber Filled

Material Notes:

Polyetheretherketone (PEEK) 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-Larpeek-10-G50-PEEK-50-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.73 g/cc	0.0625 lb/in ³	
Linear Mold Shrinkage, Flow	0.0015 - 0.0040 cm/cm	0.0015 - 0.0040 in/in	
Linear Mold Shrinkage, Transverse	0.0040 - 0.0065 cm/cm	0.0040 - 0.0065 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	150 MPa	21800 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	170 MPa	24700 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	195 MPa	28300 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	210 MPa	30500 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	220 MPa	31900 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.8 %	1.8 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.8 %	1.8 %	
	@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
	1.9 %	1.9 %	
	@Temperature 120 °C	@Temperature 248 °F	
	1.9 %	1.9 %	
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	16.6 GPa	2410 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	17.0 GPa	2470 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	17.5 GPa	2540 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	17.8 GPa	2580 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	18.0 GPa	2610 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	5.50 J/cm ²	26.2 ft-lb/in ²	
Charpy Impact, Notched	1.00 J/cm ²	4.76 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	240 °C	464 °F	
Deflection Temperature at 0.46 MPa (66 psi)	>= 300 °C	>= 572 °F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 300 °C	>= 572 °F	
Vicat Softening Point	>= 300 °C	>= 572 °F	
	@Load 5.00 kg	@Load 11.0 lb	
Flammability, UL94	V-1	V-1	
	@Thickness 0.750 mm	@Thickness 0.0295 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	

Thermal Properties	Metric	English	Comments
Glow Wire Test	875 Å°C @Thickness 1.50 mm	1610 Å°F @Thickness 0.0591 in	GWIT
	960 Å°C @Thickness 2.00 mm	1760 Å°F @Thickness 0.0787 in	

Processing Properties	Metric	English	Comments
Melt Temperature	370 - 400 Å°C	698 - 752 Å°F	
Mold Temperature	170 - 200 Å°C	338 - 392 Å°F	
Drying Temperature	120 - 150 Å°C	248 - 302 Å°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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