

LATI Larpeek 10 G/15 PEEK, 15% 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-G15-PEEK-15-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	
Linear Mold Shrinkage, Flow	0.0040 - 0.0065 cm/cm	0.0040 - 0.0065 in/in	
Linear Mold Shrinkage, Transverse	0.0070 - 0.010 cm/cm	0.0070 - 0.010 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	
	110 MPa	16000 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	125 MPa	18100 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	135 MPa	19600 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	2.8 %	2.8 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	3.1 %	3.1 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	3.4 %	3.4 %	

Mechanical Properties	Metric @Temperature 90.0 Â°C	English @Temperature 194 Â°F	Comments
	3.8 %	3.8 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	4.5 %	4.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Elongation at Yield	3.0 %	3.0 %	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	3.0 %	3.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	3.5 %	3.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	5.10 GPa	740 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	5.50 GPa	798 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	5.70 GPa	827 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	6.10 GPa	885 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	6.30 GPa	914 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	
	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact, Notched	0.300 J/cmÂ²	1.43 ft-lb/inÂ²	
	@Temperature -20.0 Â°C	@Temperature -4.00 Â°F	

Mechanical Properties	0.400 J/cm ² Metric	1.90 ft-lb/in ² English	Comments
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	220 Â°C	428 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	290 Â°C	554 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	285 Â°C	545 Â°F	
Vicat Softening Point	>= 300 Â°C @Load 5.00 kg	>= 572 Â°F @Load 11.0 lb	
Flammability, UL94	V-1 @Thickness 0.750 mm	V-1 @Thickness 0.0295 in	
	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	
	V-0 @Thickness 1.50 mm	V-0 @Thickness 0.0591 in	

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

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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