

LATI Larpeek 10 G/30 PEEK, 30% 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-G30-PEEK-30-Glass-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.50 g/cc	0.0542 lb/in ³	
Linear Mold Shrinkage, Flow	0.0020 - 0.0045 cm/cm	0.0020 - 0.0045 in/in	
Linear Mold Shrinkage, Transverse	0.0055 - 0.0085 cm/cm	0.0055 - 0.0085 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	135 MPa	19600 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	155 MPa	22500 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	165 MPa	23900 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	175 MPa	25400 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	2.2 %	2.2 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	2.2 %	2.2 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	2.3 %	2.3 %	

Mechanical Properties	Metric	English	Comments
	2.3 %	2.3 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.5 %	2.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	10.3 GPa	1490 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	10.5 GPa	1520 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	11.0 GPa	1600 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	11.3 GPa	1640 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	11.5 GPa	1670 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	6.50 J/cmÂ²	30.9 ft-lb/inÂ²	
Charpy Impact, Notched	1.00 J/cmÂ²	4.76 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	230 Â°C	446 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	295 Â°C	563 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	290 Â°C	554 Â°F	
Vicat Softening Point	>= 300 Â°C	>= 572 Â°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 @ Thickness 1.50 mm	English @ Thickness 0.0591 in	Comments
Glow Wire Test	875 Â°C	1610 Â°F	GWIT
	@Thickness 1.00 mm	@Thickness 0.0394 in	
	960 Â°C	1760 Â°F	GWFI/GWT
	@Thickness 2.00 mm	@Thickness 0.0787 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	248 - 302 Â°F	
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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