

LATI Larpeek 10 GCE/600 PEEK, Glass/Mineral Reinforced

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

Material Notes:

Polyetheretherketone (PEEK) 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-Larpeek-10-GCE600-PEEK-GlassMineral-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.93 g/cc	0.0697 lb/in ³	
Linear Mold Shrinkage, Flow	0.0020 - 0.0045 cm/cm	0.0020 - 0.0045 in/in	
Linear Mold Shrinkage, Transverse	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	100 MPa	14500 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	115 MPa	16700 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	135 MPa	19600 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	145 MPa	21000 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	160 MPa	23200 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.3 %	1.3 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.3 %	1.3 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.4 %	1.4 %	

Mechanical Properties	Metric	English	Comments
	1.4 %	1.4 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	1.5 %	1.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	15.6 GPa	2260 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	16.0 GPa	2320 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	16.9 GPa	2450 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	17.2 GPa	2490 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	17.6 GPa	2550 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	4.00 J/cmÂ²	19.0 ft-lb/inÂ²	
Charpy Impact, Notched	0.600 J/cmÂ²	2.86 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	250 Â°C	482 Â°F	
Deflection Temperature at 0.46 MPa (66 psi)	>= 300 Â°C	>= 572 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 300 Â°C	>= 572 Â°F	
Vicat Softening Point	>= 300 Â°C	>= 572 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
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Electrical Properties	Metric	English	Comments
Comparative Tracking Index	200 V	200 V	A solution

Processing Properties	Metric	English	Comments
Melt Temperature	390 - 400 Â°C	734 - 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	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China