

LATI Larpeek 10 K/40 HM PEEK, 40% Carbon Fiber Reinforced

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

Material Notes:

Polyetheretherketone (PEEK) based compound. Carbon fiber. High tensile modulus. 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-K40-HM-PEEK-40-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.47 g/cc	0.0531 lb/in ³	
Linear Mold Shrinkage, Flow	0.00050 - 0.0020 cm/cm	0.00050 - 0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0025 - 0.0045 cm/cm	0.0025 - 0.0045 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	110 MPa	16000 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	155 MPa	22500 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	170 MPa	24700 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	185 MPa	26800 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	210 MPa	30500 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	0.70 %	0.70 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	0.70 %	0.70 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	0.80 %	0.80 %	

Mechanical Properties	Metric	English	Comments
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	1.0 %	1.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	1.4 %	1.4 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	22.0 GPa	3190 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	31.0 GPa	4500 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	35.0 GPa	5080 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	37.0 GPa	5370 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	39.7 GPa	5760 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	2.50 J/cmÂ²	11.9 ft-lb/inÂ²	
Charpy Impact, Notched	0.500 J/cmÂ²	2.38 ft-lb/inÂ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	235 Â°C	455 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	

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	

Processing Properties	120 - 150 °C Metric	248 - 302 °F English	Comments
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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