

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

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

Material Notes:

Polyetheretherketone (PEEK) based compound. Carbon fiber. 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-PEEK-40-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 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	200 MPa	29000 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	230 MPa	33400 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	240 MPa	34800 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	250 MPa	36300 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	255 MPa	37000 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.1 %	1.1 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.1 %	1.1 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.1 %	1.1 %	

Mechanical Properties	Metric	English	Comments
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	1.2 %	1.2 %	
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	1.2 %	1.2 %	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
Tensile Modulus	2.55 GPa	370 ksi	
	@Temperature 150 Å°C	@Temperature 302 Å°F	
	26.0 GPa	3770 ksi	
	@Temperature 120 Å°C	@Temperature 248 Å°F	
	26.5 GPa	3840 ksi	
	@Temperature 90.0 Å°C	@Temperature 194 Å°F	
	26.7 GPa	3870 ksi	
	@Temperature 60.0 Å°C	@Temperature 140 Å°F	
	27.0 GPa	3920 ksi	
	@Temperature 23.0 Å°C	@Temperature 73.4 Å°F	
Charpy Impact Unnotched	4.50 J/cmÅ²	21.4 ft-lb/inÅ²	
Charpy Impact, Notched	0.500 J/cmÅ²	2.38 ft-lb/inÅ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	235 Å°C	455 Å°F	
Deflection Temperature at 0.46 MPa (66 psi)	>= 300 Å°C	>= 572 Å°F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 300 Å°C	>= 572 Å°F	
Vicat Softening Point	>= 300 Å°C	>= 572 Å°F	
	@Load 5.00 kg	@Load 11.0 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	120 ohm-cm	120 ohm-cm	
Surface Resistance	50 ohm	50 ohm	

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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