

LATI Larpeek 10 K/20 PEEK, 20% 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-K20-PEEK-20-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.36 g/cc	0.0491 lb/in ³	
Linear Mold Shrinkage, Flow	0.0015 - 0.0035 cm/cm	0.0015 - 0.0035 in/in	
Linear Mold Shrinkage, Transverse	0.0035 - 0.0060 cm/cm	0.0035 - 0.0060 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	160 MPa	23200 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	185 MPa	26800 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	195 MPa	28300 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	205 MPa	29700 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	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	@Temperature 90.0 Metric °C	@Temperature 194 °F English	Comments
	1.4 %	1.4 %	
	@Temperature 120 °C	@Temperature 248 °F	
	1.4 %	1.4 %	
	@Temperature 150 °C	@Temperature 302 °F	
Tensile Modulus	16.7 GPa	2420 ksi	
	@Temperature 150 °C	@Temperature 302 °F	
	17.3 GPa	2510 ksi	
	@Temperature 120 °C	@Temperature 248 °F	
	17.6 GPa	2550 ksi	
	@Temperature 90.0 °C	@Temperature 194 °F	
	17.8 GPa	2580 ksi	
	@Temperature 60.0 °C	@Temperature 140 °F	
	18.0 GPa	2610 ksi	
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	3.50 J/cm ²	16.7 ft-lb/in ²	
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	225 °C	437 °F	
Deflection Temperature at 0.46 MPa (66 psi)	>= 300 °C	>= 572 °F	
Deflection Temperature at 1.8 MPa (264 psi)	>= 300 °C	>= 572 °F	
Vicat Softening Point	>= 300 °C	>= 572 °F	
	@Load 5.00 kg	@Load 11.0 lb	

Electrical Properties	Metric	English	Comments
Volume Resistivity	10000 ohm-cm	10000 ohm-cm	
Surface Resistance	1000 ohm	1000 ohm	

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

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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