

LATI Larpeek 10 K/30 PEEK, 30% 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-K30-PEEK-30-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	
Linear Mold Shrinkage, Flow	0.00050 - 0.0025 cm/cm	0.00050 - 0.0025 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	190 MPa	27600 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	215 MPa	31200 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	225 MPa	32600 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	235 MPa	34100 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	240 MPa	34800 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	
	1.3 %	1.3 %	

Mechanical Properties	Metric	English	Comments
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	1.4 %	1.4 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	1.4 %	1.4 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	22.6 GPa	3280 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	23.1 GPa	3350 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	23.5 GPa	3410 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	23.7 GPa	3440 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	24.0 GPa	3480 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	0.500 J/cmÂ²	2.38 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)	>= 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	

Electrical Properties	Metric	English	Comments
Volume Resistivity	6000 ohm-cm	6000 ohm-cm	
Surface Resistance	300 ohm	300 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 @Time 10800 sec	248 - 302 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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