

LATI Larpeek 50 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-50-K30-PEEK-30-Carbon-Fiber-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 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	100 MPa	14500 psi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	155 MPa	22500 psi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	180 MPa	26100 psi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	200 MPa	29000 psi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	225 MPa	32600 psi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Elongation at Break	1.5 %	1.5 %	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
	1.7 %	1.7 %	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	1.7 %	1.7 %	

Mechanical Properties	Metric	English	Comments
	@ Temperature 90.0 Â°C	@ Temperature 194 Â°F	
	2.0 %	2.0 %	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	2.5 %	2.5 %	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
Tensile Modulus	15.4 GPa	2230 ksi	
	@Temperature 150 Â°C	@Temperature 302 Â°F	
	19.0 GPa	2760 ksi	
	@Temperature 120 Â°C	@Temperature 248 Â°F	
	20.5 GPa	2970 ksi	
	@Temperature 90.0 Â°C	@Temperature 194 Â°F	
	20.6 GPa	2990 ksi	
	@Temperature 60.0 Â°C	@Temperature 140 Â°F	
	21.6 GPa	3130 ksi	
	@Temperature 23.0 Â°C	@Temperature 73.4 Â°F	
Charpy Impact Unnotched	4.50 J/cmÂ²	21.4 ft-lb/inÂ²	
Charpy Impact, Notched	0.650 J/cmÂ²	3.09 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 Å°C Metric	248 - 302 Å°F English	Comments
	@Time 10800 sec	@Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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