

LATI Laticonther 88/10 GR/50 PEEK, 50% Graphite Reinforced

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

High thermal conductivity product based on Polyetheretherketone (PEEK). Graphite. 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-Laticonther-8810-GR50-PEEK-50-Graphite-Reinforced.php

Physical Properties	Metric	English	Comments
Density	1.65 g/cc	0.0596 lb/in ³	
Linear Mold Shrinkage, Flow	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	
Linear Mold Shrinkage, Transverse	0.0060 - 0.010 cm/cm	0.0060 - 0.010 in/in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	70.0 MPa	10200 psi	
Elongation at Break	0.50 %	0.50 %	
Tensile Modulus	19.6 GPa	2840 ksi	
Charpy Impact Unnotched	0.900 J/cm ²	4.28 ft-lb/in ²	
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	10.0 W/m-K	69.4 BTU-in/hr-ft ² - °F	Longitudinal
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 @Load 5.00 kg	>= 572 °F @Load 11.0 lb	

Electrical Properties	Metric	English	Comments
Surface Resistance	500000 ohm	500000 ohm	

Processing Properties	Metric	English	Comments
Melt Temperature	380 - 400 °C	716 - 752 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	160 - 190 Â°C	300 - 374 Â°F	
Drying Temperature	150 - 170 Â°C @Time 10800 sec	302 - 338 Â°F @Time 3.00 hour	

Descriptive Properties	Value	Comments
ISO Shrinkage - Pressure	60 MPa	

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