

## LATI LATILUB 88/50-20GRT K/10 PEEK Based, 10% Carbon Fiber Reinforced, 20% Graphite and PTFE Self Lubricating Plastic

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

### Material Notes:

Latilub self-lubricating plastic materials are designed to replace metals in applications such as gears, bushings, cams, slides, etc., for which, besides their intrinsic properties (moldability, low cost, lightness, high mechanical properties), low friction coefficient and low wear are required. Specific Notes for this Material: PEEK, 10% carbon fiber, 20% graphite and PTFE, flame retardant UL94 V0, halogens and red phosphorous free. Disclaimer from LATI: This document contains information based on average values as obtained from the results of laboratory tests and observations made on LATI materials. Tested materials were injection molded, used in their natural color, and conditioned in compliance with Standard ASTM D 618, procedure A. These values refer to LATI's best technical and scientific knowledge at the moment of testing and cannot be used as a basis for the development of applications. For a better assessment of the materials, you are kindly requested to contact LATI's technical or commercial offices, which are at your disposal and will supply detailed information on the most suitable characteristics for their intended use. With reference to DPR n.224 dated May 24, 1988, issued in accordance with EC Guidelines 85/374, LATI Industria Termoplastici S.p.A. declines all responsibility arising from an improper use of the products described in this document. All data provided by LATI.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_LATI-LATILUB-8850-20GRT-K10-PEEK-Based-10-Carbon-Fiber-Reinforced-20-Graphite-and-PTFE-Self-Lubricating-Plastic.php](http://www.lookpolymers.com/polymer_LATI-LATILUB-8850-20GRT-K10-PEEK-Based-10-Carbon-Fiber-Reinforced-20-Graphite-and-PTFE-Self-Lubricating-Plastic.php)

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	LATI
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	LATI

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	120 MPa	17400 psi	ISO 527
Flexural Modulus	8.80 GPa	1280 ksi	ASTM D790
Izod Impact, Notched	0.570 J/cm @Temperature 23.0 °C	1.07 ft-lb/in @Temperature 73.4 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	280 °C	536 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 0.750 mm	V-0 @Thickness 0.0295 in	

Processing Properties	Metric	English	Comments
Melt Temperature	365 - 385 °C	689 - 725 °F	
Mold Temperature	180 - 190 °C	356 - 374 °F	
Drying Temperature	150 - 170 °C	302 - 338 °F	Always recommended, temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Always recommended, drying time can be reduced when using vacuum ovens.

Descriptive Properties	Value	Comments
Injection Speed	medium	

## Contact Songhan Plastic Technology Co.,Ltd.

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