

LATI LATILUB 80-40GRT Polyphenylene sulfide Base (PPS), 40% Graphite and PTFE Self Lubricating Plastic (U)

Category : Polymer , Thermoplastic , Polyphenylene Sulfide (PPS) , Polyphenylene Sulfide (PPS) with PTFE Filler

Material Notes:

Description: Latilub self-lubricating plastic materials are more and more often 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: polyphenylene sulfide base (PPS); 40% graphite and PTFE; good thermal resistance. 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.

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http://www.lookpolymers.com/polymer_LATI-LATILUB-80-40GRT-Polyphenylene-sulfide-Base-PPS-40-Graphite-and-PTFE-Self-Lubricating-Plastic-nsbU.php

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in ³	ISO 1183
Water Absorption	0.010 %	0.010 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	LATI

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ISO 527
Flexural Modulus	8.20 GPa	1190 ksi	ASTM D790
Izod Impact, Notched	0.100 J/cm @Temperature 23.0 °C	0.187 ft-lb/in @Temperature 73.4 °F	ASTM D256
Charpy Impact Unnotched	0.500 J/cm ² @Temperature 23.0 °C	2.38 ft-lb/in ² @Temperature 73.4 °F	DIN 53453

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	247 °C	477 °F	ASTM D648

Thermal Properties (Stress at 1.8 MPa (264 psi))	Metric	English	Comments
Vicat Softening Point	247 °C	477 °F	50°C/h 50N; ISO 306

Processing Properties	Metric	English	Comments
Melt Temperature	280 - 300 °C	536 - 572 °F	
Mold Temperature	130 - 140 °C	266 - 284 °F	
Drying Temperature	130 - 140 °C	266 - 284 °F	Temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Drying time can be reduced when using vacuum ovens.

Descriptive Properties	Value	Comments
Heat Resistance - Ball Test (125°C)	Y	IEC 335
Heat Resistance - Ball Test (165°C)	Y	IEC 335
Injection Speed	medium - high	

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