LATI LATILUB 73/13-01M Polyoxymethylene Base (POM), 1% Molybdenum Disulfide Self Lubricating Plastic (Unv

Category : Polymer , Thermoplastic , Acetal (POM)

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: polyoxymethylene base (POM); 1% molybdenum disulfide; good wear 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 Guide-lines 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-7313-01M-Polyoxymethylene-Base-POM-1-Molybdenum-Disulfide-Self-Lubricating-Plastic-nbspUnv.php

Physical Properties	Metric	English	Comments
Density	1.44 g/cc	0.0520 lb/in³	ISO 1183
Water Absorption	0.15 %	0.15 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.020 cm/cm	0.020 in/in	LATI
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	LATI

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	ASTM D785
Tensile Strength, Ultimate	65.0 MPa	9430 psi	ISO 527
	19.0 MPa @Temperature 120 °C	2760 psi @Temperature 248 °F	ISO 527
	29.0 MPa @Temperature 90.0 °C	4210 psi @Temperature 194 °F	ISO 527
	41.0 MPa @Temperature 60.0 °C	5950 psi @Temperature 140 °F	ISO 527
Flexural Modulus	2.94 GPa	426 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
	0.980 GPa	142 ksi	ASTM D790
	@Temperature 120 °C	@Temperature 248 °F	
	0.980 GPa	142 ksi	ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	1.70 GPa	247 ksi	ASTM D790
	@Temperature 60.0 °C	@Temperature 140 °F	
Izod Impact, Notched	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.700 J/cm	1.31 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	112 °C	234 °F	ASTM D648
Vicat Softening Point	152 °C	306 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
Oxygen Index	18 %	18 %	ISO 4589

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 200 °C	356 - 392 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °F	
Drying Temperature	80.0 - 100 °C	176 - 212 °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)	N	IEC 335
Injection Speed	medium	
Needle Burner Test	N	1.47 mm
	N	3.05 mm

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