

LATI LATILUB 82-01M Nylon 12 Base, 1% Molybdenum Disulfide Self Lubricating Plastic (discontinued **)

Category : Polymer , Thermoplastic , Nylon , Nylon 12

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: polyamide 12 base (PA 12); 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 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-82-01M-Nylon-12-Base-1-Molybdenum-Disulfide-Self-Lubricating-Plastic-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ISO 1183
Water Absorption	0.30 %	0.30 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0070 cm/cm	0.0070 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	LATI

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ISO 527
	15.0 MPa	2180 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	22.0 MPa	3190 psi	ISO 527
	@Temperature 90.0 °C	@Temperature 194 °F	
	34.0 MPa	4930 psi	ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	
Flexural Modulus	1.47 GPa	213 ksi	ASTM D790
	0.275 GPa	39.9 ksi	

Mechanical Properties	Metric @ Temperature 120 °C	English @ Temperature 248 °F	ASTM D790 Comments
	0.390 GPa	56.6 ksi	ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	0.685 GPa	99.4 ksi	ASTM D790
	@Temperature 60.0 °C	@Temperature 140 °F	
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.350 J/cm	0.656 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.450 J/cm	0.843 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	152 °C	306 °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	22 %	22 %	ISO 4589

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

Processing Properties	Metric	English	Comments
Melt Temperature	210 - 240 °C	410 - 464 °F	
Mold Temperature	60.0 - 80.0 °C	140 - 176 °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)	Y	IEC 335

Descriptive Properties Injection Speed	Value medium - high	Comments
Needle Burner Test	N	1.47 mm
	N	3.05 mm

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