

LATI LATILUB 73/13-20T Polyoxymethylene Base (POM), 10% Mixed PTFE Self Lubricating Plastic (Unverified D

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, PTFE Filled

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 (POM); 20% PTFE; low friction coefficient. 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.

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http://www.lookpolymers.com/polymer_LATI-LATILUB-7313-20T-Polyoxymethylene-Base-POM-10-Mixed-PTFE-Self-Lubricating-Plastic-nbspUnverified-D.php

Physical Properties	Metric	English	Comments
Density	1.49 g/cc	0.0538 lb/in ³	ISO 1183
Water Absorption	0.080 %	0.080 %	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	74	74	ASTM D785
Tensile Strength, Ultimate	49.0 MPa	7110 psi	ISO 527
	10.0 MPa	1450 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	21.0 MPa	3050 psi	ISO 527
	@Temperature 90.0 °C	@Temperature 194 °F	
	29.0 MPa	4210 psi	ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790

Mechanical Properties	Metric	English	Comments
	0.850 GPa	123 ksi	ASTM D790
	@Temperature 120 °C	@Temperature 248 °F	
	0.850 GPa	123 ksi	ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	1.55 GPa	225 ksi	ASTM D790
	@Temperature 60.0 °C	@Temperature 140 °F	
	0.400 J/cm	0.749 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Izod Impact, Notched	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.600 J/cm	1.12 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	1.60 J/cm²	7.61 ft-lb/in²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.70 J/cm²	8.09 ft-lb/in²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.80 J/cm²	8.57 ft-lb/in²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 µm/m-°C	44.4 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	140 °C	284 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	100 °C	212 °F	ASTM D648
Vicat Softening Point	131 °C	268 °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
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Comparative Tracking Index Electrical Properties	>= 600 V Metric	>= 600 V English	IEC 112 Comments
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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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