

LATI LATAN 13 G/303 30% Glass Fiber Reinforced Polyoxymethylene Copolymer (POM) (discontinued **)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 30% Glass Fiber Reinforced

Material Notes:

Description: Latan series thermoplastics are polyoxymethylene copolymer (POM) products. The main applications for Latan feature good wear resistance, chemical inertness and low water absorption (gears, cams, bushings, and other parts for the electromechanical, hydraulic, and automotive sectors, and others). A good resistance to hydrolysis makes it usable in hot water up to 80°-90°C. Basic Latan versions featuring low or high flowability are available, as well as an elastomer modified version to improve product toughness. Specific Notes for this Material: 30% glass fiber; high rigidity. 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-LATAN-13-G303-30-Glass-Fiber-Reinforced-Polyoxymethylene-Copolymer-POM-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.59 g/cc	0.0574 lb/in ³	ISO 1183
Water Absorption	0.20 %	0.20 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0060 cm/cm	0.0060 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0125 cm/cm	0.0125 in/in	LATI

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ASTM D785
Tensile Strength, Ultimate	83.0 MPa	12000 psi	ISO 527
	45.0 MPa	6530 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	53.0 MPa	7690 psi	ISO 527
	@Temperature 90.0 °C	@Temperature 194 °F	
	60.0 MPa	8700 psi	ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	

Electrical Properties	Metric	English	Comments
Mechanical Properties	3.80 GPa	551 ksi	ASTM D790
	@Temperature 120 °C	@Temperature 248 °F	
	4.50 GPa	653 ksi	ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	5.70 GPa	827 ksi	ASTM D790
	@Temperature 60.0 °C	@Temperature 140 °F	
Izod Impact, Notched	0.550 J/cm	1.03 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.550 J/cm	1.03 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.550 J/cm	1.03 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	1.80 J/cm²	8.57 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 -40.0 °C	@Temperature -40.0 °F	
	2.00 J/cm²	9.52 ft-lb/in²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	162 °C	324 °F	ASTM D648
Vicat Softening Point	156 °C	313 °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
Dielectric Strength	23.0 kV/mm	584 kV/in	IEC 243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	

Electrical Properties	Metric	English	Comments
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Processing Properties	Metric	English	Comments
Melt Temperature	180 - 210 °C	356 - 410 °F	
Mold Temperature	80.0 - 100 °C	176 - 212 °F	
Drying Temperature	80.0 - 100 °C	176 - 212 °F	Not essential, temperature can be reduced when using vacuum ovens.
Dry Time	>= 3 hour	>= 3 hour	Not essential, 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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