

LATI LATAN 13 G/15 15% Glass Fiber Reinforced Polyoxymethylene Copolymer (POM) (discontinued **)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 20% 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: 15% glass fiber; good mechanical properties. 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-LATAN-13-G15-15-Glass-Fiber-Reinforced-Polyoxymethylene-Copolymer-POM-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.53 g/cc	0.0553 lb/in ³	ISO 1183
Water Absorption	0.20 %	0.20 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0090 cm/cm	0.0090 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0135 cm/cm	0.0135 in/in	LATI

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	ASTM D785
Tensile Strength, Ultimate	73.0 MPa	10600 psi	ISO 527
	32.0 MPa	4640 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
	43.0 MPa	6240 psi	ISO 527
	@Temperature 90.0 °C	@Temperature 194 °F	
Tensile Strength, Yield	50.0 MPa	7250 psi	ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	

Elemental Modulus Mechanical Properties	5.10 GPa Metric	740 ksi English	ASTM D790 Comments
	2.40 GPa @Temperature 120 °C	348 ksi @Temperature 248 °F	ASTM D790
	3.10 GPa @Temperature 90.0 °C	450 ksi @Temperature 194 °F	ASTM D790
	3.90 GPa @Temperature 60.0 °C	566 ksi @Temperature 140 °F	ASTM D790
Izod Impact, Notched	0.600 J/cm @Temperature 23.0 °C	1.12 ft-lb/in @Temperature 73.4 °F	ASTM D256

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)	155 °C	311 °F	ASTM D648
Vicat Softening Point	158 °C	316 °F	50°C/h 50N; ISO 306
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	
Oxygen Index	18 %	18 %	ISO 4589

Electrical Properties	Metric	English	Comments
Dielectric Strength	22.0 kV/mm @Thickness 2.00 mm	559 kV/in @Thickness 0.0787 in	IEC 243-1
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 112

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)		IEC 335

Descriptive Properties	Value	Comments
Heat Resistance - Ball Test (165°C)	N	IEC 335
Injection Speed	medium	
Needle Burner Test	N	1.47 mm
	N	3.05 mm

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China