

## LATI LATAN 23 Polyoxymethylene Copolymer (POM) (discontinued \*\*)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Unreinforced

### 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: low viscosity for thin-walled products; excellent surface finish. 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-23-Polyoxymethylene-Copolymer-POM-nbspdiscontinued-.php](http://www.lookpolymers.com/polymer_LATI-LATAN-23-Polyoxymethylene-Copolymer-POM-nbspdiscontinued-.php)

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.28 %	0.28 %	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
Melt Flow	24 g/10 min	24 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	ASTM D785
Tensile Strength, Ultimate	60.0 MPa	8700 psi	ISO 527
Flexural Modulus	2.90 GPa	421 ksi	ASTM D790
Izod Impact, Notched	0.600 J/cm @Temperature 23.0 °C	1.12 ft-lb/in @Temperature 73.4 °F	ASTM D256
Charpy Impact Unnotched	>= 30.0 J/cm <sup>2</sup> @Temperature 23.0 °C	>= 143 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	DIN 53453

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)	110 °C	230 °F	ASTM D648
Vicat Softening Point	152 °C	306 °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	19.0 kV/mm @Thickness 2.00 mm	483 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 - 200 °C	356 - 392 °F	
Mold Temperature	70.0 - 90.0 °C	158 - 194 °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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