

LATI LATAN 13 Medium Viscosity Polyoxymethylene Copolymer (POM) (Unverified Data**)

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: medium viscosity; good 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-13-Medium-Viscosity-Polyoxymethylene-Copolymer-POM-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.42 g/cc	0.0513 lb/in ³	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	12 g/10 min	12 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	83	83	ASTM D785
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ISO 527
	18.0 MPa	2610 psi	ISO 527
	@Temperature 120 °C	@Temperature 248 °F	
Tensile Strength, Yield	27.0 MPa	3920 psi	ISO 527
	@Temperature 90.0 °C	@Temperature 194 °F	
Tensile Strength, Elongation at Break	39.0 MPa	5660 psi	ISO 527

Mechanical Properties	@Temperature 60.0 °C Metric	@Temperature 140 °F English	Comments
Flexural Modulus	2.80 GPa	406 ksi	ASTM D790
	0.500 GPa	72.5 ksi	ASTM D790
	@Temperature 120 °C	@Temperature 248 °F	
	0.700 GPa	102 ksi	ASTM D790
	@Temperature 90.0 °C	@Temperature 194 °F	
	1.40 GPa	203 ksi	ASTM D790
	@Temperature 60.0 °C	@Temperature 140 °F	
Izod Impact, Notched	0.430 J/cm	0.806 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.470 J/cm	0.881 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.650 J/cm	1.22 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	14.3 J/cm ²	68.1 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	>= 30.0 J/cm ²	>= 143 ft-lb/in ²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 30.0 J/cm ²	>= 143 ft-lb/in ²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C	61.1 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Deflection Temperature at 0.46 MPa (66 psi)	165 °C	329 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	115 °C	239 °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	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

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