

LATI LATAN 13 K/30 30% Carbon Fiber Reinforced Polyoxymethylene Copolymer (POM) (Unverified Data**)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Carbon Fiber Filled

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% carbon fiber; very high rigidity; low specific resistivity; good self-lubricating 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-K30-30-Carbon-Fiber-Reinforced-Polyoxymethylene-Copolymer-POM-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.48 g/cc	0.0535 lb/in ³	ISO 1183
Water Absorption	0.20 %	0.20 %	at 23°C; ISO 62
Linear Mold Shrinkage	0.0030 cm/cm	0.0030 in/in	LATI
Linear Mold Shrinkage, Transverse	0.0060 cm/cm	0.0060 in/in	LATI

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	92	92	ASTM D785
Tensile Strength, Ultimate	85.0 MPa	12300 psi	ISO 527
Flexural Modulus	17.0 GPa	2470 ksi	ASTM D790
Izod Impact, Notched	0.380 J/cm	0.712 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.380 J/cm	0.712 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.400 J/cm	0.749 ft-lb/in	

Mechanical Properties	Metric	English	ASTM D256 Comments
Charpy Impact Unnotched	0.900 J/cm ²	4.28 ft-lb/in ²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	DIN 53453
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	0.900 J/cm ²	4.28 ft-lb/in ²	DIN 53453
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	168 °C	334 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	162 °C	324 °F	ASTM D648
Vicat Softening Point	163 °C	325 °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
Surface Resistance	1000 ohm	1000 ohm	IEC 93
Dielectric Strength	3.00 kV/mm	76.2 kV/in	IEC 243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	<= 100 V	<= 100 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)	Y	IEC 335

Heat Resistance - Ball Test (165°C) Descriptive Properties	Value	Comments
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