

LATI LATAN 3E71 Polyoxymethylene Copolymer (POM) with Elastomer (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: with elastomers for high toughness and impact resistance; 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-3E71-Polyoxymethylene-Copolymer-POM-with-Elastomer-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.34 g/cc	0.0484 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.018 cm/cm	0.018 in/in	LATI
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	LATI
Melt Flow	1.0 g/10 min	1.0 g/10 min	ISO 1133

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	77	77	ASTM D785
Tensile Strength, Ultimate	55.0 MPa	7980 psi	ISO 527
	20.0 MPa	2900 psi	ISO 527
	@Temperature 90.0 °C	@Temperature 194 °F	
Flexural Modulus	30.0 MPa	4350 psi	ISO 527
	@Temperature 60.0 °C	@Temperature 140 °F	
Flexural Modulus	1.60 GPa	232 ksi	ASTM D790
	0.430 GPa	62.4 ksi	ASTM D790

Mechanical Properties	@Temperature 90.0 °C Metric	@Temperature 194 °F English	Comments
	0.890 GPa	129 ksi	ASTM D790
	@Temperature 60.0 °C	@Temperature 140 °F	
Izod Impact, Notched	0.800 J/cm	1.50 ft-lb/in	ASTM D256
	@Temperature -40.0 °C	@Temperature -40.0 °F	
	1.10 J/cm	2.06 ft-lb/in	ASTM D256
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	1.40 J/cm	2.62 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	
Charpy Impact Unnotched	>= 30.0 J/cm ²	>= 143 ft-lb/in ²	DIN 53453
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	>= 30.0 J/cm ²	>= 143 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	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	145 °C	293 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	74.0 °C	165 °F	ASTM D648
Vicat Softening Point	132 °C	270 °F	50°C/h 50N; ISO 306

Electrical Properties	Metric	English	Comments
Dielectric Strength	19.0 kV/mm	483 kV/in	IEC 243-1
	@Thickness 2.00 mm	@Thickness 0.0787 in	
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 112

Processing Properties	Metric	English	Comments
Melt Temperature	180 - 210 °C	356 - 410 °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.
			Not essential, drying time can be

Dry Time Processing Properties	≥ 3 hour Metric	≥ 3 hour English	reduced when using vacuum ovens. Comments
Descriptive Properties		Value	Comments
Injection Speed		medium	

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