

CENTROPLAST CENTRODAL GL Polyoxymethylene + PE-UHMW

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

Material Notes:

CENTRODAL GL has good dry running and emergency running properties. During the modification of POM + PE, a PE-UHMW is incorporated to the basic polyoxymethylene polymer. It leads to an improvement of the friction and dry sliding behavior. Applications include bearing bushes, structural components subjected to dynamic loads, and sliding plates. Formerly Centrodal G. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRODAL-GL-Polyoxymethylene-PE-UHMW.php

Physical Properties	Metric	English	Comments
Density	1.35 g/cc	0.0488 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.80 %	0.80 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	110 MPa	16000 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	43.0 MPa	6240 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	15 %	15 %	ISO 527-2
Tensile Modulus	2.20 GPa	319 ksi	ISO 527-2
Flexural Modulus	2.00 GPa	290 ksi	ISO 178
Charpy Impact Unnotched	5.00 J/cm ²	23.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.500 J/cm ²	2.38 ft-lb/in ²	ISO 179/1eA
Coefficient of Friction, Dynamic	0.19	0.19	vs. steel

Thermal Properties	Metric	English	Comments
CTE, linear	140 µm/m-°C	77.8 µin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	166 °C	331 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	100 °C	212 °F	Long Term
	140 °C	284 °F	Short term
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	84.0 °C Metric	183 °F English	ISO 75-2 Comments
Vicat Softening Point	140 °C	284 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.8	3.8	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.8	3.8	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	35.0 kV/mm	889 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0070	0.0070	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

Descriptive Properties	Value	Comments
Food Compliance	yes	BGVV
	yes	FDA

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