

CENTROPLAST CENTROGUARD Polyoxymethylene, Antimicrobial

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

Material Notes:

During the modification with POM CG, antimicrobial substances are included in the basic polyoxymethylene polymer, which provide an effective and long lasting solution against unwanted growth of micro-organisms, such as algae, bacteria and fungi. The antimicrobial effect remains during the entire life time of the product. POM CG-plastics are often used in medical and food products and facilities due additional protection. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROGUARD-Polyoxymethylene-Antimicrobial.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Moisture Absorption	0.200 % @Temperature 23.0 °C	0.200 % @Temperature 73.4 °F	normal humidity; ISO 62
Water Absorption at Saturation	0.80 % @Temperature 23.0 °C	0.80 % @Temperature 73.4 °F	ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84	84	test piece 10mm thick; ISO 2039-2
Ball Indentation Hardness	140 MPa	20300 psi	ISO 2039-1
Tensile Strength	63.0 MPa	9140 psi	5 mm/min; ISO 527-2
Tensile Strength, Yield	63.0 MPa	9140 psi	50 mm/min; ISO 527-2
Elongation at Break	31 %	31 %	ISO 527-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-2
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Charpy Impact Unnotched	22.0 J/cm ²	105 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm ²	3.81 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C @Temperature 23.0 - 60.0 °C	61.1 µin/in-°F @Temperature 73.4 - 140 °F	ISO 11359
Thermal Conductivity	0.310 W/m-K	2.15 BTU-in/hr-ft ² -°F	DIN 52612

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	105 °C	221 °F	continuous
	140 °C	284 °F	short term
Deflection Temperature at 0.46 MPa (66 psi)	96.0 °C	205 °F	ISO 75-2
Vicat Softening Point	150 °C	302 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-40.0 °C	-40.0 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.00 - 6.00 mm	@Thickness 0.118 - 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	
Dielectric Strength	3.8	3.8	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0030	0.0030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0080	0.0080	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Color	Natural	
Food Compliance BfR:	Yes	
Food Compliance FDA	Yes	

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