

CENTROPLAST CENTRODAL MD Polyoxymethylene, Magnetically Detectable

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

During the modification with POM MD, metal fillings are added to the basic polyoxymethylene, which allows the plastic to be detectable.

The excellent machinability, tenacity and dimensional stability of the basic plastic remain. The BfR-/FDA approval assures physiological safety. POM MD plastics are used as building parts in the food industry. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRODAL-MD-Polyoxymethylene-Magnetically-Detectable.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ISO 1183
Water Absorption at Saturation	<= 0.10 % @Temperature 23.0 °C	<= 0.10 % @Temperature 73.4 °F	ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	148 MPa	21500 psi	ISO 2039-1
Tensile Strength	48.0 MPa	6960 psi	5 mm/min; ISO 527-2
Tensile Strength, Yield	52.0 MPa	7540 psi	50 mm/min; ISO 527-2
Elongation at Break	16 %	16 %	ISO 527-2
Tensile Modulus	3.20 GPa	464 ksi	ISO 527-2
Flexural Modulus	1.90 GPa	276 ksi	ISO 178
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eU

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.380 W/m-K	2.64 BTU-in/hr-ft ² -°F	DIN 52612
Melting Point	165 °C	329 °F	DSC, 10 K/m; ISO 3146
Maximum Service Temperature, Air	100 °C	212 °F	continuous
	120 °C	248 °F	short term
Deflection Temperature at 0.46 MPa (66 psi)	105 °C	221 °F	ISO 75-2
Vicat Softening Point	155 °C	311 °F	VST/B/50; ISO 306
Flammability, UL94	HB	HB	

Thermal Properties	Metric	English	Comments
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Electrical Properties	Metric	English	Comments
Surface Resistance	1.00e+22 ohm	1.00e+22 ohm	IEC 60093

Descriptive Properties	Value	Comments
Color	Blue	
Food Compliance BfR:	No	
Food Compliance FDA	No	

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