

## CENTROPLAST CENTRODAL W Polyoxymethylene

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

### Material Notes:

POM W is a semi-crystalline thermoplastic, which is certified in accordance with the regulatory system DVGW, technical regulations, work form W 270 and therefore, is particularly suited for the safe application within the vicinity of drinking water. The excellent machinability, dimensional stability and chemical resistance of the basic polyoxymethylene polymer remain. It confirms to food regulatory standards in accordance with BfR/FDA. POM W-plastics often serve as construction elements for bottling drinking water machinery. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CENTROPLAST-CENTRODAL-W-Polyoxymethylene.php](http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRODAL-W-Polyoxymethylene.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	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 <sup>2</sup>	105 ft-lb/in <sup>2</sup>	ISO 179/1eU
Charpy Impact, Notched	0.800 J/cm <sup>2</sup>	3.81 ft-lb/in <sup>2</sup>	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 Properties	0.310 W/m-K Metric	2.15 BTU-in/hr-ft <sup>2</sup> -°F English	DIN 52612 Comments
Melting Point	165 °C	329 °F	DSC, 10 K/m; ISO 3146
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 @Thickness 3.00 - 6.00 mm	HB @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 @Frequency 100 Hz	3.8 @Frequency 100 Hz	IEC 60250
	3.8 @Frequency 1.00e+6 Hz	3.8 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	20.0 kV/mm	508 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0030 @Frequency 100 Hz	0.0030 @Frequency 100 Hz	IEC 60250
	0.0080 @Frequency 1.00e+6 Hz	0.0080 @Frequency 1.00e+6 Hz	IEC 60250
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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