

CENTROPLAST CENTRODAL C FG Polyoxymethylene, Food Grade

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

Material Notes:

POM C is a partially crystalline thermoplastic, which is characterized by its excellent machinability, dimensional stability, and chemical resistance. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRODAL-C-FG-Polyoxymethylene-Food-Grade.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 |
| Melting Point | 165 °C | 329 °F | DSC, 10 K/m; ISO 3146 |

| Maximum Service Temperature, Air Thermal Properties | 105 °C Metric | 221 °F English | continuous Comments |
|---|---------------------------------|-----------------------------------|------------------------|
| | 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 | Blue | |
| | Natural | |
| Food Compliance BfR: | Yes | |
| Food Compliance FDA | Yes | |

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