

CENTROPLAST CENTRODAL TF Polyoxymethylene + PTFE

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, PTFE Filled

Material Notes:

This material is high strength and high heat strength dimensional stability. Applications include racks and annular gears, dimensionally accurate structural components for pumps, and housings and transmission components subjected to high loads. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRODAL-TF-Polyoxymethylene-PTFE.php

Physical Properties	Metric	English	Comments
Density	1.52 g/cc	0.0549 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	0.65 %	0.65 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	84 @Thickness 10.0 mm	84 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	120 MPa	17400 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	48.0 MPa	6960 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	16 %	16 %	ISO 527-2
Tensile Modulus	2.50 GPa	363 ksi	ISO 527-2
Flexural Modulus	2.40 GPa	348 ksi	ISO 178
Charpy Impact Unnotched	6.00 J/cm ²	28.6 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C @Temperature 20.0 °C	66.7 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	
Melting Point	166 °C	331 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	105 °C	221 °F	Long Term
	150 °C	302 °F	Short term

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	98.0 °C	208 °F	ISO 15-2
Vicat Softening Point	145 °C	293 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-20.0 °C	-4.00 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.7	3.7	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	33.0 kV/mm	838 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0020	0.0020	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0080	0.0080	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	600 V	600 V	IEC 60112

Descriptive Properties	Value	Comments
Food Compliance	yes	BGVV
	yes	FD A

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