

CENTROPLAST CENTRODAL LF Polyoxymethylene conductive

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

Material Notes:

This material is electrically conductive, with high mechanical strength and dimensional stability. Applications include structural components in potentially explosive areas, components for diverting static charges, and conveyor paddles for powdered materials. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRODAL-LF-Polyoxymethylene-conductive.php

Physical Properties	Metric	English	Comments
Density	1.45 g/cc	0.0524 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	0.70 %	0.70 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	97 @Thickness 10.0 mm	97 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	147 MPa	21300 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	63.0 MPa	9140 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	17 %	17 %	ISO 527-2
Tensile Modulus	2.80 GPa	406 ksi	ISO 527-2
Flexural Modulus	2.70 GPa	392 ksi	ISO 178
Charpy Impact Unnotched	12.0 J/cm ²	57.1 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.550 J/cm ²	2.62 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	110 µm/m-°C @Temperature 20.0 °C	61.1 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	
Melting Point	166 °C	331 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	100 °C	212 °F	Long Term
	140 °C	284 °F	Short term

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	188 °C	212 °F	ISO 75-2
Vicat Softening Point	150 °C	302 °F	VST/B/50; ISO 306
Minimum Service Temperature, Air	-20.0 °C	-4.00 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1e+05	1e+05	IEC 60093
Surface Resistance	100 ohm	100 ohm	IEC 60093

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China