

## CENTROPLAST CENTRODAL GF Polyoxymethylene 30% glass fiber

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, 30% Glass Fiber Reinforced

### Material Notes:

This material has good hot water resistance and sliding properties. Its applications include seals, scrapers and chain guides, and toothed wheels and rollers. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CENTROPLAST-CENTRODAL-GF-Polyoxymethylene-30-glass-fiber.php](http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRODAL-GF-Polyoxymethylene-30-glass-fiber.php)

Physical Properties	Metric	English	Comments
Density	1.60 g/cc	0.0578 lb/in <sup>3</sup>	ISO 1183
Moisture Absorption at Equilibrium	0.17 %	0.17 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.90 %	0.90 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Ball Indentation Hardness	200 MPa	29000 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	135 MPa	19600 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	4.0 %	4.0 %	ISO 527-2
Tensile Modulus	9.20 GPa	1330 ksi	ISO 527-2
Flexural Modulus	7.80 GPa	1130 ksi	ISO 178
Charpy Impact Unnotched	3.00 J/cm <sup>2</sup>	14.3 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	40.0 μm/m-°C	22.2 μin/in-°F	ISO 11359
	@Temperature 20.0 °C	@Temperature 68.0 °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
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ISO 75-2
Vicat Softening Point	158 °C	316 °F	VST/B/50; ISO 306

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	IEC 60093
Surface Resistance	1.00e+12 ohm	1.00e+12 ohm	IEC 60093
Dielectric Constant	4.3	4.3	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	4.3	4.3	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	40.0 kV/mm	1020 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0030	0.0030	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dissipation Factor	0.0060	0.0060	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	

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