

CENTROPLAST CENTROLYTE Polyethylene terephthalate

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET) , Polyethylene Terephthalate (PET), Unreinforced

Material Notes:

This material is electrically insulating, with good chemical resistance, high mechanical strength and wear resistance. Applications include pump components, coil bodies, ball bearing cups and protective housings. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROLYTE-Polyethylene-terephthalate.php

Physical Properties	Metric	English	Comments
Density	1.39 g/cc	0.0502 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.30 %	0.30 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.50 %	0.50 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	95 @Thickness 10.0 mm	95 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	170 MPa	24700 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	90.0 MPa	13100 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	15 %	15 %	ISO 527-2
Tensile Modulus	3.60 GPa	522 ksi	ISO 527-2
Charpy Impact Unnotched	>= 5.00 J/cm ²	>= 23.8 ft-lb/in ²	ISO 179/1eU
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	60.0 μm/m-°C @Temperature 20.0 °C	33.3 μin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft ² -°F	
Melting Point	255 °C	491 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	115 °C	239 °F	Long Term
	160 °C	320 °F	Short term
Deflection Temperature at 1.8 MPa	75.0 °C	167 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Minimum Service Temperature, Air	-20.0 °C	-4.00 °F	
Flammability, UL94	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	
	HB	HB	
	@Thickness 6.00 mm	@Thickness 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+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.2	3.2	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	3.4	3.4	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	22.0 kV/mm	559 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.014	0.014	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	FDA

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