

CENTROPLAST CENTROLYTE FG Polyethylene terephthalate, Food Grade

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. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROLYTE-FG-Polyethylene-terephthalate-Food-Grade.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 (264 psi)	75.0 °C	167 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
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
Color	Natural	
Food Compliance	yes	BGVV
	yes	FD A

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