

CENTROPLAST CENTRO HPM Polysulfone

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

This plastic has good hydrolysis, chemical and radiation resistance, and can operate at high temperatures. It is used in food processing industry, pumps and valves, and medical equipment. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRO-HPM-Polysulfone.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.40 %	0.40 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.85 %	0.85 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91 @Thickness 10.0 mm	91 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	155 MPa	22500 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	80.0 MPa	11600 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	10 %	10 %	ISO 527-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	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	60.0 µm/m-°C @Temperature 20.0 °C	33.3 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.260 W/m-K	1.80 BTU-in/hr-ft ² -°F	
Maximum Service Temperature, Air	150 °C	302 °F	Long Term
	180 °C	356 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	170 °C	338 °F	ISO 75-2
Flammability, UL94	HB	HB	

Thermal Properties	@Thickness 3.00 mm Metric	@Thickness 0.118 in English	Comments
	HB	HB	
	@Thickness 6.00 mm	@Thickness 0.236 in	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+13 ohm	1.00e+13 ohm	IEC 60093
Dielectric Constant	3.0	3.0	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	3.0	3.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.0030	0.0030	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	150 V	150 V	IEC 60112

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