CENTROPLAST CENTRO HPM Polyphenylensulfone

Category : Polymer , Thermoplastic , Polyphenylsulfone (PPSU)

Material Notes:

This plastic has very good mechanical, electrical and thermal properties. It has very good hydrolysis resistance, and is suitable for medical, and pharmaceutical equipment construction.Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:
http://www.lookpolymers.com/polymer_CENTROPLAST-CENTRO-HPM-Polyphenylensulfone.php

Physical Properties	Metric	English	Comments
Density	1.29 g/cc	0.0466 lb/in³	ISO 1183
Moisture Absorption at Equilibrium	0.60 %	0.60 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	1.2 %	1.2 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	80 @Thickness 10.0 mm	80 @Thickness 0.394 in	ISO 2039-2
Tensile Strength, Yield	76.0 MPa	11000 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	10 %	10 %	ISO 527-2
Tensile Modulus	2.50 GPa	363 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	1.00 J/cm²	4.76 ft-lb/in²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	55.0 µm/m-°C @Temperature 20.0 °C	30.6 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.350 W/m-K	2.43 BTU-in/hr-ft²-°F	
Maximum Service Temperature, Air	180 °C	356 °F	Long Term
	210 °C	410 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	200 °C	392 °F	ISO 75-2
Flammability, UL94	V-0 @Thickness 3.00 mm	V-0 @Thickness 0.118 in	

Thermal Properties	Metric	English	Comments
	V-0 @Thickness 6.00 mm	V-0 @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	3.4 @Frequency 100 Hz	3.4 @Frequency 100 Hz	IEC 60250
	3.5 @Frequency 1e+6 Hz	3.5 @Frequency 1e+6 Hz	IEC 60250
Dissipation Factor	0.0010 @Frequency 100 Hz	0.0010 @Frequency 100 Hz	IEC 60250
	0.0050 @Frequency 1e+6 Hz	0.0050 @Frequency 1e+6 Hz	IEC 60250

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