

CENTROPLAST CENTROPEEK Polyetheretherketone

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Unreinforced

Material Notes:

This plastic has high temperature resistance, good chemical resistance, and good mechanical characteristics. Its has good sliding friction properties and is suitable for use with foodstuffs or medical equipment. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROPEEK-Polyetheretherketone.php

Physical Properties	Metric	English	Comments
Density	1.31 g/cc	0.0473 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.20 %	0.20 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.45 %	0.45 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	105 @Thickness 10.0 mm	105 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	230 MPa	33400 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	110 MPa	16000 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	20 %	20 %	ISO 527-2
Tensile Modulus	4.40 GPa	638 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.350 J/cm ²	1.67 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	50.0 µm/m-°C @Temperature 20.0 °C	27.8 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	
Melting Point	340 °C	644 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	250 °C	482 °F	Long Term
	310 °C	590 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	160 °C	320 °F	ISO 75-2

Thermal Properties Flammability, UL 94	Metric V-0	English V-0	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	
	@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	3.2	3.2	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	3.6	3.6	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dielectric Strength	24.0 kV/mm	610 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.0010	0.0010	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Comparative Tracking Index	0.0020	0.0020	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Comparative Tracking Index	150 V	150 V	IEC 60112

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