

CENTROPLAST CENTROFLON Polyvinylidene fluoride

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF , Polyvinylidene fluoride (PVDF), Molded/Extruded

Material Notes:

This material has very good chemical and temperature resistance, with good slip characteristics. Its applications include pump wheels, flanges, valve bodies, and laboratory equipment. Information provided by CENTROPLAST Engineering Plastics GMBH

Order this product through the following link:

http://www.lookpolymers.com/polymer_CENTROPLAST-CENTROFLON-Polyvinylidene-fluoride.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ISO 1183
Moisture Absorption at Equilibrium	0.040 %	0.040 %	in normal climate 23°C/50%RH; ISO 62
Water Absorption at Saturation	0.040 %	0.040 %	in water at 23°C; ISO 62

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	75 @Thickness 10.0 mm	75 @Thickness 0.394 in	ISO 2039-2
Ball Indentation Hardness	100 MPa	14500 psi	value at 30 sec.; ISO 2039-1
Tensile Strength, Yield	50.0 MPa	7250 psi	v = 50 mm/min; ISO 527-2
Elongation at Break	>= 50 %	>= 50 %	ISO 527-2
Tensile Modulus	2.00 GPa	290 ksi	ISO 527-2
Charpy Impact Unnotched	NB	NB	ISO 179/1eU
Charpy Impact, Notched	0.600 J/cm ²	2.86 ft-lb/in ²	ISO 179/1eA

Thermal Properties	Metric	English	Comments
CTE, linear	120 µm/m-°C @Temperature 20.0 °C	66.7 µin/in-°F @Temperature 68.0 °F	ISO 11359
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	
Melting Point	169 °C	336 °F	10K/min; ISO 3146
Maximum Service Temperature, Air	150 °C	302 °F	Long Term
	160 °C	320 °F	Short term
Deflection Temperature at 1.8 MPa (264 psi)	105 °C	221 °F	ISO 75-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-0	V-0	
	@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	6.0	6.0	IEC 60250
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	7.5	7.5	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
Dielectric Strength	20.0 kV/mm	508 kV/in	in transformer oil; IEC 60243-1
Dissipation Factor	0.025	0.025	IEC 60250
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.165	0.165	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	FD A

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