

Ensinger ENSIKEM® PVDF (Polyvinylidene Fluoride) - Extruded Products (discontinued **)

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

Material Notes:

Polyvinylidene fluoride, or PVDF, is a fluorinated thermoplastic resin that has outstanding resistance to most mineral and organic acids, aliphatic and aromatic hydrocarbons, alcohols, halogenated solvents, and oxidizing environments. It also has outstanding aging resistance, with its properties remaining constant after many years of continuous use. Uses: ENSIKEM's excellent chemical and physical properties and the ease with which it can be processed make it especially suitable for components in the chemical, petrochemical, hydrometallurgical, pharmaceutical, food, nuclear, and paper and pulp industries, as well as the semiconductor processing industry.

Information supplied by Ensinger, Inc. Ensikem grades have been replaced by Tecafion

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-ENSIKEM-PVDF-Polyvinylidene-Fluoride-Extruded-Products-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.78 g/cc	0.0643 lb/in ³	ASTM D792
Water Absorption	<= 0.040 %	<= 0.040 %	24 hrs; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	100	100	ASTM D785
Tensile Strength, Ultimate	53.4 MPa	7750 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Modulus of Elasticity	2.40 GPa	348 ksi	1% Secant; ASTM D638
Flexural Yield Strength	74.1 MPa	10700 psi	ASTM D790
Flexural Modulus	2.30 GPa	334 ksi	Tangent; ASTM D790
Compressive Yield Strength	80.0 MPa	11600 psi	ASTM D695
Izod Impact, Notched	1.60 J/cm	3.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	128 µm/m-°C	71.1 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	ASTM C177
Melting Point	178 °C	352 °F	ASTM D3448
Deflection Temperature at 0.46 MPa	149 °C	300 °F	ASTM D648

<small>(55 psi)</small> Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	ASTM D648
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00e+14 ohm-cm	5.00e+14 ohm-cm	ASTM D257
Dielectric Constant	9.0 @Frequency 60 Hz	9.0 @Frequency 60 Hz	ASTM D150
Dielectric Strength	11.0 kV/mm	280 kV/in	ASTM D149
Dissipation Factor	0.060 @Frequency 60 Hz	0.060 @Frequency 60 Hz	ASTM D150

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