

Ensinger ENSIFONE® PSU (Polysulfone) - Extruded Products (discontinued **)

Category : Polymer , Thermoplastic , Polysulfone (PSU)

Material Notes:

ENSIFONE is a transparent engineering plastic known for its chemical resistance, rigidity, high-temperature performance, and its ability to operate in an autoclave environment. ENSIFONE is FDA and NSF complaint and holds its excellent mechanical properties over a wide range of temperatures. Uses: ENSIFONE 's unique combination of chemical and hydrolytic resistance, high-temperature performance, good mechanical properties, and agency approvals make it an excellent choice for applications in the pharmaceutical, medical, food service equipment, semiconductor processing, and electronic equipment industries. Ensifone grades have been replaced by Tecason Information supplied by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-ENSIFONE-PSU-Polysulfone-Extruded-Products-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.24 g/cc	0.0448 lb/in ³	ASTM D792
Water Absorption	0.30 %	0.30 %	24 hrs.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Ultimate	69.8 MPa	10100 psi	ASTM D638
Elongation at Break	50 - 100 %	50 - 100 %	ASTM D638
Tensile Modulus	2.48 GPa	360 ksi	ASTM D638
Flexural Yield Strength	106.2 MPa	15400 psi	ASTM D790
Flexural Modulus	2.70 GPa	392 ksi	1% Secant; ASTM D790
Izod Impact, Notched	0.690 J/cm	1.29 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.37	0.37	40 psi, 50 fpm; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	55.8 µm/m-°C	31.0 µin/in-°F	ASTM D696
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Maximum Service Temperature, Air	141 °C	286 °F	Long Term
	171 °C	340 °F	Short Term
Deflection Temperature at 0.46 MPa (66 psi)	181 °C	358 °F	ASTM D648

Deflection Temperature at 1.8 MPa (100 psi) Thermal Properties	174 °C Metric	345 °F English	ASTM D648 Comments
Flammability, UL94	V-0	V-0	

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	transparent; thickness not quantified

Electrical Properties	Metric	English	Comments
Electrical Resistivity	5.00e+16 ohm-cm	5.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.1 @Frequency 60 Hz	3.1 @Frequency 60 Hz	50% RH; ASTM D150
Dielectric Strength	16.5 kV/mm	419 kV/in	ASTM D149
Dissipation Factor	0.0010 @Frequency 60 Hz	0.0010 @Frequency 60 Hz	ASTM D150

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