

Ensinger Tecaform™ Acetal Copolymer - Extruded Products (POM)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Tecaform™ is a semi-crystalline thermoplastic offering high strength, stiffness and toughness. It is resistant to hot water, hydrocarbons and solvents, and it possesses good bearing and wear properties available in natural and black grades, it is commonly used as bushings, rollers, wear strips and other applications requiring its combination of strength, low moisture absorption, chemical resistance and dimensional stability. No centerline porosity Low moisture absorption Excellent machinability Good combination of mechanical properties Chemical resistance to fuels and solvents Good wear and abrasion properties Natural grade is manufactured from resins that are FDA, USDA, NSF and 3A Sanitary compliant Good dimensional stability Good property retention at elevated temperatures Black grades are also manufactured from resin that is FDA compliant TECAFORM™ is used in a wide variety of industrial applications requiring good strength and toughness, dimensional stability, wear resistance and the ability to operate in a wet environment with little absorption. Material handling, machinery and fluid handling are some of the common industries utilizing TECAFORM™'s combination of properties. Typical applications are gears, wear strips, bushings, pump parts, fittings and rollers. Information supplied by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecaform-Acetal-Copolymer-Extruded-Products-POM.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0507 lb/in ³	ASTM D792
Water Absorption	0.22 %	0.22 %	at 24 hours; ASTM D570
Water Absorption at Saturation	0.80 %	0.80 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	86	86	ASTM D785
Tensile Strength, Yield	60.7 MPa	8800 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Tensile Modulus	2.62 GPa	380 ksi	ASTM D638
Flexural Strength	75.8 MPa	11000 psi	ASTM D790
Flexural Modulus	2.48 GPa	360 ksi	ASTM D790
Compressive Strength	31.0 MPa	4500 psi	ASTM D695
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.21	0.21	40 psi, 50 fpm; ASTM D3702
K (wear) Factor	131 x 10 ⁻⁸ mm ³ /N-M	65.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	40 psi, 50 fpm; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	84.6 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	47.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Melting Point	165 $^{\circ}\text{C}$	329 $^{\circ}\text{F}$	ASTM D2133
Maximum Service Temperature, Air	100 $^{\circ}\text{C}$	212 $^{\circ}\text{F}$	Long Term
	141 $^{\circ}\text{C}$	285 $^{\circ}\text{F}$	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	158 $^{\circ}\text{C}$	316 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 $^{\circ}\text{C}$	230 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	ASTM D257
Surface Resistivity per Square	1.00e+9 - 1.00e+14 ohm	1.00e+9 - 1.00e+14 ohm	ASTM D257
Dielectric Constant	3.7	3.7	50% RH; ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	
Dielectric Strength	19.7 kV/mm	500 kV/in	ASTM D149
Dissipation Factor	0.0010	0.0010	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

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