

## Ensinger Tecaform™ FG Blue Food Grade Acetal (POM)

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

Tecaform™ is resistant to hot water and typical cleaning chemicals. It possesses good bearing and wear properties. The blue color makes it more visible than standard grades. It is commonly used as bushings, rollers, wear strips and other applications requiring a combination of strength, low moisture absorption, chemical resistance, and dimensional stability. Features: No centerline porosity, Low moisture absorption, excellent machinability, Good combination of mechanical properties, Resistance to food industry cleaning chemicals, including aqueous solutions with pH between 4 and 14, Good wear and abrasion properties, Manufactured from resin and color components that are FDA, USDA, and 3A Dairy compliant, Good dimensional stability, Good property retention at elevated temperatures. Information supplied by Ensinger, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-Tecaform-FG-Blue-Food-Grade-Acetal-POM.php](http://www.lookpolymers.com/polymer_Ensinger-Tecaform-FG-Blue-Food-Grade-Acetal-POM.php)

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.22 %	0.22 %	24 hrs; 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 <sup>-8</sup> mm <sup>3</sup> /N-M	65.0 x 10 <sup>-10</sup> in <sup>3</sup> -min/ft-lb-hr	vs steel; 40 psi, 50 fpm; ASTM D3702

Thermal Properties	Metric	English	Comments
CTE, linear	84.6 μm/m-°C	47.0 μin/in-°F	ASTM D696

Melting Point Thermal Properties	165 °C Metric	329 °F English	ASTM D2133 Comments
Maximum Service Temperature, Air	90.6 °C	195 °F	Long Term; UL 746B
	141 °C	285 °F	Intermittent
Deflection Temperature at 0.46 MPa (66 psi)	158 °C	316 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0e+14 ohm-cm	1.0e+14 ohm-cm	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	0.001	0.001	ASTM D150
	@Frequency 60 Hz	@Frequency 60 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

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