

Ensinger Tecaform™ MT Acetal, Medical Grade (POM)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced

Material Notes:

TECAFORM® MT is Ensinger's specially formulated medical grade acetal. The material is resistant to multiple cleaning and disinfection agents, and to a number of solvents. It can be steam sterilized by the medical industry's usual methods, and will maintain good strength, stiffness, and dimensional stability. The material feedstock meets the requirements specified by the FDA, and its code of federal regulations, CFR 21. It has also been fully assessed for biocompatibility according to US Pharmacopia (USP) Class VI and ISO 10993. Made from FDA compliant resin. Tested for biocompatibility in compliance with USP Class VI. Tested for Cytotoxicity and compliance according to ISO 10993. Easily machinable while used for a great number of medical applications, TECAFORM MT is particularly suited for use as sizing trials in knee, hip and shoulder replacement procedures. Information provided by Ensinger

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecaform-MT-Acetal-Medical-Grade-POM.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Density	1.41 g/cc	0.0509 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	<= 0.30 %	<= 0.30 %	50%RH; ASTM D570
Water Absorption at Saturation	0.50 %	0.50 %	ASTM D570

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	13.0 MPa	1890 psi	1% elongation after 1000hr
	55.0 MPa	7980 psi	ASTM D638
Elongation at Yield	30 %	30 %	ASTM D638
Rupture Strength	40.0 MPa	5800 psi	
	@Time 3.60e+6 sec	@Time 1000 hour	
Tensile Modulus	2.10 GPa	305 ksi	1mm/min; ASTM D638

Thermal Properties	Metric	English	Comments
CTE, linear	99.0 µm/m-°C	55.0 µin/in-°F	
	@Temperature 22.8 - 55.0 °C	@Temperature 73.0 - 131 °F	ASTM E831
Melting Point	160 °C	320 °F	ASTM D3418
Maximum Service Temperature, Air	100 °C	212 °F	long term
Deflection Temperature at 1.8 MPa			

(264 psi) Thermal Properties	110 °C Metric	230 °F English	ASTM D648 Comments
Glass Transition Temp, Tg	-60.0 °C	-76.0 °F	ASTM D3418
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+14 ohm-cm	1.00e+14 ohm-cm	IEC 60093
Surface Resistance	1.00e+14 ohm	1.00e+14 ohm	IEC 60093
Dielectric Constant	3.5 @Frequency 100000 Hz	3.5 @Frequency 100000 Hz	IEC 250
Dissipation Factor	0.0030	0.0030	IEC 250

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