

# TECAFORM<sup>®</sup> MT

TECAFORM<sup>®</sup>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 American Food and Drug Administration (FDA) and its code of Federal

Regulations, CFR 21. It has also been fully assessed for biocompatibility according to U.S. Pharmacopia (USP) Class VI and ISO 10993. It is available in a wide variety of standard colors and custom colors as well.

- **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<sup>®</sup>MT is particularly suited for use as sizing trials in knee, hip and shoulder replacement, procedures.*

# TYPICAL PROPERTY VALUES

	PROPERTIES	ASTM Test Method	Units	Value
<b>PHYSICAL</b>	Density	D792	lbs/in <sup>3</sup>	0.0509
	Specific Gravity	D792	-	1.41
	Moisture Absorption @ Equilibrium (50% R.H.)	D570	%	<0.30
	Water Absorption @ Saturation	D570	%	0.5
<b>MECHANICAL</b>	Tensile Strength @ Yield	D638	psi	7,980
	Elongation @ Yield	ISO 257	%	30
	Tensile Modulus (1 mm/min)	D638	ksi	305
	Creep Rupture Strength After 1,000 hr.	-	psi	5,800
	Time Yield Limit to 1% Elongation After 1,000 hr.	-	psi	1,890
<b>THERMAL</b>	Melting Point	ASTM D 3418	°F	320
	Glass Transition Temperature	ASTM D 3418	°F	-76
	Heat Deflection Temperature @ 264 psi	ASTM D 648	°F	230
	Long Term Service Temperature	-	°F	212
	Coefficient of Linear Thermal Expansion (73° to 131°F)	ASTM E 831	in/in/°F	5.5 x 10 <sup>-5</sup>
	Flammability	UL 94	-	HB
<b>ELECTRICAL</b>	Volume Resistivity	IEC 60093	ohm-cm	10 <sup>14</sup>
	Surface Resistivity	IEC 60093	Ohm/square	10 <sup>14</sup>
	Dielectric Constant, @ 10 <sup>5</sup> Hz	IEC 250	-	3.5
	Dielectric Loss Factor	IEC 250	-	0.003

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**MATERIAL AVAILABILITY - Custom ordered - minimums apply**

**Rods:** Diameters: 1" to 4" diameters, 4' and 8' Lengths

**Plates:** Call for quote

**Profiles, tubes, and special sizes are custom-produced on request.**



DISTRIBUTED BY

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