

TECAFORM® MT

Acetal (POM) Copolymer

Ensinger Inc.

Message:

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 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 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.

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.

General Information			
Features	Good dimensional stability		
	Rigid, good		
	Solvent resistance		
	Machinable		
	Good strength		
	Biocompatibility		
	Disinfect with steam		
Uses	Medical/nursing supplies		
Agency Ratings	FDA not rated		
	ISO 10993		
	USP Class VI		
Appearance	Available colors		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Water Absorption			ASTM D570
Saturation	0.50	%	ASTM D570
Balance, 50% RH	< 0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	2100	MPa	ASTM D638
Tensile Strength (Yield)	55.0	MPa	ASTM D638
Tensile Strain (Yield)	30	%	ISO 527-2
Creep rupture strength-after 1000 hr.	40	MPa	
Service Temperature - Long Term	100	°C	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	110	°C	ASTM D648

Glass Transition Temperature	-60.0	°C	
Peak Melting Temperature	160	°C	ASTM D3418
CLTE - Flow (23 to 55°C)	9.9E-5	cm/cm/°C	ASTM E831
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+14	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Dielectric Constant (100 kHz)	3.50		IEC 250
Dissipation Factor	3.0E-3		IEC 250
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information			
Time Yeld Limit to 1% Elongation After 1,000 hr: 1,890 psiData obtained from extruded shapes material.			
NOTE			

1. 1.0 mm/min

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