

TECANYL® MT

Polyphenylene Ether
Ensinger Inc.

Message:

TECANYL™ MT is a new family of autoclavable materials developed for medical device applications. The material offers the desired performance properties of PPSU based resins with the machining ease and tool friendliness of acetal or POM. This allows part designers to take advantage of lower manufacturing costs by increasing output rates, and reducing tool wear, all without sacrificing part performance. TECANYL™ MT and TECANYL™ MT XRO™ shapes are all ISO 10993 tested to support their use in instrumentation that is intended to come in contact with blood and tissue for a period of not more than 24 hours. Ensinger can also provide TECANYL™ MT grades in finished injection molded parts for high volume applications. TECANYL™ MT exhibits a broad range of outstanding properties for applications in medical devices where exposure to extreme heat and hygienic measures are demanded. Excellent wear properties, ease of quality machining and availability in a wide range of colors contribute to its desirability in medical devices.

General Information			
Features	Autoclavable		
	Good Wear Resistance		
	Machinable		
	Outstanding Surface Finish		
Uses	Medical/Healthcare Applications		
Agency Ratings	ISO 10993		
Appearance	Colors Available		
Forms	Shapes		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			
--	1.08	g/cm³	ASTM D792
--	0.830	g/cm³	ISO 1183
Water Absorption (Equilibrium, 23°C)	0.23	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus (23°C)	3250	MPa	ASTM D638
Tensile Strength (Break, 23°C)	67.6	MPa	ASTM D638
Tensile Elongation (Break, 23°C)	16	%	ASTM D638
Flexural Modulus (23°C)	2540	MPa	ASTM D790
Flexural Strength (23°C)	101	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	147	°C	ASTM D648
CLTE - Flow (4 to 38°C)	8.7E-5	cm/cm/°C	ASTM E831

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Recommended distributors for this material

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