

## Ensinger TECANYL™ MT XRO Autoclavable Polymer

Category : Polymer , Thermoplastic

### Material Notes:

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. Excellent autoclave performance comparable to higher temperature materials. Easily machined, producing high quality surface. No black speck generation as in sulfone polymers. Lower manufacturing costs. ISO 10993 Tested. Information Provided by Ensinger Industries, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-TECANYL-MT-XRO-Autoclavable-Polymer.php](http://www.lookpolymers.com/polymer_Ensinger-TECANYL-MT-XRO-Autoclavable-Polymer.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Density	0.830 g/cc	0.0300 lb/in <sup>3</sup>	ISO 1183
Water Absorption	0.23 % @Temperature 22.8 °C	0.23 % @Temperature 73.0 °F	equilibrium; ISO 62

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	67.6 MPa @Temperature 22.8 °C	9800 psi @Temperature 73.0 °F	ASTM D638
Elongation at Break	16.3 % @Temperature 22.8 °C	16.3 % @Temperature 73.0 °F	ASTM D638
Tensile Modulus	3.25 GPa @Temperature 22.8 °C	471 ksi @Temperature 73.0 °F	ASTM D638
Flexural Strength	101 MPa @Temperature 22.8 °C	14600 psi @Temperature 73.0 °F	ASTM D790
Flexural Modulus	2.54 GPa @Temperature 22.8 °C	368 ksi @Temperature 73.0 °F	ASTM D790
Izod Impact, Notched	1.39 J/cm @Temperature 22.8 °C	2.60 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	86.6 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$ @Temperature -40.0 - 37.8 $^{\circ}\text{C}$	48.1 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$ @Temperature -40.0 - 100 $^{\circ}\text{F}$	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	147 $^{\circ}\text{C}$	296 $^{\circ}\text{F}$	ASTM D648
Vicat Softening Point	75.6 $^{\circ}\text{C}$	168 $^{\circ}\text{F}$	

## Contact Songhan Plastic Technology Co.,Ltd.

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