

Ensinger TECANYL™ MT CF30 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-CF30-Autoclavable-Polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	142 MPa @Temperature 22.8 °C	20600 psi @Temperature 73.0 °F	ASTM D638
Elongation at Break	5.94 % @Temperature 22.8 °C	5.94 % @Temperature 73.0 °F	ASTM D638
Flexural Strength	266 MPa @Temperature 22.8 °C	38600 psi @Temperature 73.0 °F	ASTM D790
Flexural Modulus	20.872 GPa @Temperature 22.8 °C	3027.2 ksi @Temperature 73.0 °F	ASTM D790
Izod Impact, Notched	0.609 J/cm @Temperature 22.8 °C	1.14 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	86.6 µm/m-°C @Temperature -40.0 - 37.8 °C	48.1 µin/in-°F @Temperature -40.0 - 100 °F	ASTM E831
Deflection Temperature at 1.8 MPa (264 psi)	147 °C	296 °F	ASTM D648
Vicat Softening Point	75.6 °C	168 °F	

Thermal Properties

Metric

English

Comments

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