TECASON P MT XRO® blue - Stock Shapes (rods, plates, tubes)

Chemical Designation
PPSU (Polyphenylsulfone)

Colour
blue

Density
1.36 g/cm^3

Fillers
barium sulfate

Main features
- x-ray opaque
- high thermal and mechanical capacity
- good heat deflection temperature
- hydrolysis and superheated steam resistant
- good impact strength
- high gamma radiation resistance
- good chemical resistance
- high strength

Target Industries
- medical technology

Mechanical properties	condition	value	unit	test method	comment
Modulus of elasticity (tensile test)	@ 73 °F	420,000	psi	ASTM D 638	
Tensile strength at yield	@ 73 °F	11,500	psi	ASTM D 638	
Elongation at break (tensile test)	@ 73 °F	35	%	ASTM D 638	
Flexural strength	@ 73 °F	18,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73 °F	350,000	psi	ASTM D 790	
Compression strength	@1% strain, 73 °F	1,750	psi	ASTM D 695	
Compression strength	@ 73 °F, 10% strain	13,700	psi	ASTM D 695	
Compression modulus	@ 73 °F	225,000	psi	ASTM D 695	
Impact strength (Izod)	@ 73 °F	1.6	ft-lbs/in	ASTM D 256	
Rockwell hardness	@ 73 °F, R scale	126		ASTM D 785	
Rockwell hardness	@ 73 °F, M scale	92		ASTM D 785	

Thermal properties	condition	value	unit	test method		comment
Service temperature	Long Term	300	°F	-	1)	(1) Data obtained from public source

Other properties	condition	value	unit	test method	comment
Moisture absorption	@ 24 hrs, 73 °F	0.19	%	ASTM D 570	

- Resin specification:
  ASTM D 6394-21 SP0311
  Shapes specification:
  none

Information about products and services sold by Ensinger, including without limitation information contained in this document do not constitute a warranty by Ensinger as to the quality and state or durability of products or services, or any guarantee of chemical resistance. Such information reflects the current state of our knowledge and is intended only to assist and advise the recipient. The recipient shall not be entitled to rely on Ensinger provided information and the recipient agrees to evaluate such information, to make an independent decision regarding the suitability of such information, products and services for its application, and only use such products, services and information pursuant to then current good product stewardship principles and all regulatory requirements applicable to the recipient's business. Values are guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. Data sheet values are subject to periodic review and the most recent update can be found at www.ensingerplastics.com

Ensinger Inc. Headquarters 365 Meadowlands Boulevard Washington, PA 15301, USA

Phone 800-243-3221 Sales Phone 800-869-4029
Technical Fax 724-746-9209
sales@ensingerusa.com

Date: 2017/08/07

Version: A1