

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

Chemical Designation

PPSU (Polyphenylsulfone)

Colour bone

Density 1.36 g/cm³

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

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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 6394-10 SP0311 Shapes specification: NONE

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Version: A1

Date: 2016/02/08