

# TECAPEEK MT XRO blue - Stock Shapes (rods, plates, tubes)

## **Chemical Designation**

PEEK (Polyetheretherketone)

## Colour

blue opaque

# Density

1.39 g/cm<sup>3</sup>

#### Filler

barium sulfate

## Main features

- → high creep resistance
- → x-ray opaque
- → good chemical resistance
- → good slide and wear properties
- → resistance against high energy radiation
- → very good stress cracking resistance
- hydrolysis and superheated steam resistant
- → very good sterilisable

# Target Industries

- → medical technology
- → food technology

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→ mechanical engineering

Mechanical properties	parameter	value	unit	norm		comment	
Tensile strength	50mm/min	120	MPa	DIN EN ISO 527-2		(1) For tensile test: specimen type 1b (2) For Charpy test: support span 64mm, norm specimen. n.b. = not broken	
Modulus of elasticity (tensile test)	1mm/min	4500	MPa	DIN EN ISO 527-2	1)		
Elongation at break (tensile test)	50mm/min	10	%	DIN EN ISO 527-2	······		
Impact strength (Charpy)	max. 7,5J	n.b.	kJ/m <sup>2</sup>	DIN EN ISO 179-1eU	2)		
Notched impact strength (Charpy)	max. 7,5J	5.7	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA			
Thermal properties	parameter	value	unit	norm		comment	
Melting temperature		342	°C	DIN 53765		(1) Found in public sources.	
Service temperature	short term	300	°C	-	1)	Individual testing regarding application conditions is	
Service temperature	long term	260	°C	-		mandatory.	

<sup>→</sup> TECAPEEK products are based on Victrex® PEEK polymer.

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Manufactured by: Ensinger Group, a German based plastic manufacturer

Represented by: Ensinger Asia Holding Pte Ltd. (Singapore Branch) for Asia Pacific other than Japan+China 63 Hillview Avenue #02-03 Lam Soon Industrial Building Singapore 669569 Tel +65 65524177 Fax +65 65525177 www.ensingerplastics.com/en-sg/ Version: AB