

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

Chemical Designation

PEEK (Polyetheretherketone)

Colour

blue opaque

Density

1.39 g/cm³

Fillers

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
- 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
Modulus of elasticity (tensile test)	1mm/min	4500	MPa	DIN EN ISO 527-2	(2) For Charpy test: support span 64mm, norm specimen. n.b. = not broken
Elongation at break (tensile test)	50mm/min	10	%	DIN EN ISO 527-2	
Impact strength (Charpy)	max. 7.5J	n.b.	kJ/m ²	DIN EN ISO 179-1eU	2)
Notched impact strength (Charpy)	max. 7.5J	5.7	kJ/m ²	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 mandatory.
Service temperature	long term	260	°C	-	

→ TECAPEEK products are based on Victrex® PEEK polymer.

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