

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

Chemical Designation

PEEK (Polyetheretherketone)

Colour

green opaque

Density

1.38 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
- mechanical engineering
- food engineering

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	50mm/min	117	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	4400	MPa	DIN EN ISO 527-2	
Elongation at break (tensile test)	50mm/min	11	%	DIN EN ISO 527-2	
Impact strength (Charpy)	max. 7,5J	n.b.	kJ/m ²	DIN EN ISO 179-1eU	
Notched impact strength (Charpy)	max. 7,5J	5.6	kJ/m ²	DIN EN ISO 179-1eA	
Shore hardness		91		DIN EN ISO 868	
Thermal properties	parameter	value	unit	norm	comment
Melting temperature		343	°C	DIN 53765	(1) Found in public sources. Individual testing regarding application conditions is mandatory.
Service temperature	short term	300	°C	-	
Service temperature	long term	260	°C	-	