

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
Modulus of elasticity (tensile test)	1mm/min	4400	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	11	%	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	5.6	kJ/m ²	DIN EN ISO 179-1eA	
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	-	(1)
Service temperature	long term	260	°C	-	
Other properties	parameter	value	unit	norm	comment

→ TECAPEEK products are based on Victrex® PEEK polymer.

Our information and statements reflect the current state of our knowledge and shall inform about our products and their applications. They do not assure or guarantee chemical resistance, quality of products and their merchantability in a legally binding way. Our products are not defined for use in medical or dental implants. Existing commercial patents have to be observed. The corresponding values and information are no minimum or maximum values, but guideline values that can be used primarily for comparison purposes for material selection. These values are within the normal tolerance range of product properties and do not represent guaranteed property values. Therefore they shall not be used for specification purposes. Unless otherwise noted, these values were determined by tests at reference dimensions (typically rods with diameter 40-60 mm according to DIN EN 15860) on extruded and machined specimen. As the properties depend on the dimensions of the semi-finished products and the orientation in the component (esp. in reinforced grades), the material may not be used without a separate testing under individual circumstances. The customer is solely responsible for the quality and suitability of products for the application and has to test usage and processing prior to use. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com. Technical changes reserved.

Ensinger GmbH
Rudolf-Diesel Str. 8
71154 Nufringen - Deutschland

Tel +49 7032 819 0
Fax +49 7032 819 100
ensingerplastics.com

Date: 2016/09/29

Version: AA

CURBELL
PLASTICS

1-888-CURBELL
www.curbellplastics.com

Curbell Plastics is a proud supplier of Ensinger materials.