

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

### Chemical Designation

PEEK (Polyetheretherketone)

### Colour

yellow opaque

### Density

1.43 g/cm<sup>3</sup>

### 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

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	50mm/min	116	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	4600	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	5.6	kJ/m <sup>2</sup>	DIN EN ISO 179-1eA	
Shore hardness		91		DIN EN ISO 868	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Melting temperature		341	°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	-	