

TECAPEEK IM natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige opaque

Density

1.3 g/cm³

Main features

- very good chemical resistance
- inherent flame retardant
- good heat deflection temperature
- hydrolysis and superheated steam resistant
- good machinability
- good slide and wear properties

Target Industries

- oil and gas industry
- chemical technology
- energy industry
- 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	95	MPa	ASTM D 638	1) (1) For tensile test: specimen type 1b
Elongation at break (tensile test)	50 mm/min	45	%	ASTM D 638	
Flexural strength	2mm/min, 10 N	124	MPa	ASTM D 790	
Modulus of elasticity (flexural test)	2mm/min, 10 N	3700	MPa	ASTM D 790	
Ball indentation hardness		84.5		ASTM D 2240	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Glass transition temperature		150	°C	DIN EN ISO 11357	1) (1) Found in public sources.
Melting temperature		341	°C	DIN EN ISO 11357	(2) Found in public sources.
Service temperature	short term	300	°C	-	2) Individual testing regarding application conditions is mandatory.
Service temperature	long term	300	°C	-	

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