

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

Mechanical properties	parameter	value	unit	norm		comment
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	rdness			ASTM D 2240		
Thermal properties	parameter	value	unit	norm		comment
Glass transition temperature		150	°C	DIN EN ISO 11357	1)	(1) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory.
Melting temperature		341	°C	DIN EN ISO 11357		
Service temperature	short term	300	°C	-	2)	
Service temperature	long term	300	°C	-		

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