

TECAPEEK IM GF30 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige opaque

Density

1.51 g/cm³

Fillor

30% glass fibres

Main features

- → high dimensional stability
- → very good chemical resistance
- → inherent flame retardant
- → good heat deflection temperature
- hydrolysis and superheated steam resistant
- → good machinability
- → very high creep resistant

Target Industries

- → oil and gas industry
- → chemical technology
- → energy industry

Date: 2018/02/22

→ mechanical engineering

Mechanical properties	parameter	value	unit	norm		comment
Tensile strength	50mm/min	180	MPa	ASTM D 638		
Elongation at break (tensile test)	50 mm/min	2.8	%	ASTM D 638		
Modulus of elasticity (flexural test)	2mm/min, 10 N	11000	MPa	ASTM D 790		
Ball indentation hardness		87.5		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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