

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

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige opaque

Density

1.51 g/cm³

Fillers

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
- 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)
Melting temperature		341	°C	DIN EN ISO 11357	2)
Service temperature	short term	300	°C	-	2)
Service temperature	long term	300	°C	-	

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