

# TECAPEEK IM CF30 black - Stock Shapes (rods, plates, tubes)

## Chemical Designation

PEEK (Polyetheretherketone)

### Colour

black opaque

# Density

1.44 g/cm<sup>3</sup>

## Fillers

30% carbon fibres

### 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

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→ mechanical engineering

Mechanical properties	parameter	value	unit	norm		comment
Tensile strength	50mm/min	285	MPa	DIN EN ISO 527-2	1)	(1) For tensile test: specimen type 1b (2) For flexural test: support span 64mm, norm specimen.
Modulus of elasticity (tensile test)	1mm/min	35000	MPa	DIN EN ISO 527-2		
Elongation at break (tensile test)	50 mm/min	1.5	%	DIN EN ISO 527-2		
Flexural strength	2mm/min, 10 N	425	MPa	DIN EN ISO 178	2)	
Modulus of elasticity (flexural test)	2mm/min, 10 N	30000	MPa	DIN EN ISO 178		
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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Manufactured by: Ensinger Group, a German based plastic manufacturer

Represented by: Ensinger Asia Holding Pte Ltd. (Singapore Branch) for Asia Pacific other than Japan+China 63 Hillview Avenue #02-03 Lam Soon Industrial Building Singapore 669569 Tel +65 65524177 Fax +66 65525177 www.ensingerplastics.com/en-sg/

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