

## 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
- mechanical engineering

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	50mm/min	285	MPa	DIN EN ISO 527-2	1)
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)
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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