

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

Chemical Designation

PEEK (Polyetheretherketone)

Colour

black opaque

Density

1.44 g/cm³

Fillor

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

Date: 2018/02/22

→ mechanical engineering

parameter	value	unit	norm		comment
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.
1mm/min	35000	MPa	DIN EN ISO 527-2		
50 mm/min	1.5	%	DIN EN ISO 527-2		
2mm/min, 10 N	425	MPa	DIN EN ISO 178	2)	
2mm/min, 10 N	30000	MPa	DIN EN ISO 178		
parameter	value	unit	norm		comment
	150	°C	DIN EN ISO 11357	1)	Found in public sources. Found in public sources. Individual testing regarding application conditions is mandatory.
	341	°C	DIN EN ISO 11357		
short term	300	°C	-	2)	
long term	300	°C	-		
	50mm/min 1mm/min 50 mm/min 2mm/min, 10 N 2mm/min, 10 N parameter short term	50mm/min 285 1mm/min 35000 50 mm/min 1.5 2mm/min, 10 N 425 2mm/min, 10 N 30000 parameter value 150 341 short term 300	50mm/min 285 MPa 1mm/min 35000 MPa 50 mm/min 1.5 % 2mm/min, 10 N 425 MPa 2mm/min, 10 N 30000 MPa parameter value unit 150 °C 341 °C short term 300 °C	50mm/min 285 MPa DIN EN ISO 527-2 1mm/min 35000 MPa DIN EN ISO 527-2 50 mm/min 1.5 % DIN EN ISO 527-2 2mm/min, 10 N 425 MPa DIN EN ISO 178 2mm/min, 10 N 30000 MPa DIN EN ISO 178 parameter value unit norm 150 °C DIN EN ISO 11357 341 °C DIN EN ISO 11357 short term 300 °C -	50mm/min 285 MPa DIN EN ISO 527-2 1) 1mm/min 35000 MPa DIN EN ISO 527-2 1) 50 mm/min 1.5 % DIN EN ISO 527-2 2mm/min, 10 N 425 MPa DIN EN ISO 178 2) 2mm/min, 10 N 30000 MPa DIN EN ISO 178 parameter value unit norm 150 °C DIN EN ISO 11357 1) 341 °C DIN EN ISO 11357 short term 300 °C - 2)

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