TECAPEEK SM GF30 natural

Chemical designation

PEEK (polyetheretherketone)

Colour

Beige opaque

Density

1.53 g/cm^3

Fillers

Glass fibres

Main features

- electrically insulating
- high thermal and mechanical capacity
- hydrolysis and superheated steam resistant
- good chemical resistance
- flame retardant according to UL94 V-0
- high dimensional stability
- good slide and wear properties
- very high stiffness
- very high creep resistance

Target Industries

- oil and gas Industry
- chemical technology
- mechanical engineering
- electrical engineering
- aircraft and aerospace technology
- automotive industry
- conveyor technology
- vacuum technology
- textile industry

Mechanical properties	parameter	value	unit	norm		comment
Modulus of elasticity (tensile test)		7230	MPa	BS EN ISO 527-2		
Tensile strength		107	MPa	BS EN ISO 527-2		
Tensile strength at yield		107	MPa	BS EN ISO 527-2		
Elongation at yield		2.1	%	BS EN ISO 527-2		
Elongation at break		2.1	%	BS EN ISO 527-2		
Flexural strength		165	MPa			
Modulus of elasticity (flexural test)		6380	MPa			
Shore D hardness		89		BS EN ISO 868		

Thermal properties	parameter	value	unit	norm		comment
Glass transition temperature		147	℃	DIN 53765	1)	(1) Found in public sources. (2) Found in public sources. Individual testing regarding application conditions is mandatory.
Melting temperature		341	℃			
Service temperature	short term	300	℃		2)	
Service temperature	long term	260	℃			

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