

TECAPEEK CM GF30 natural (XP91) - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige

Density

1.56 g/cm³

Fillers

30% glass fibres

Main features

- excellent strength
- broad chemical compatibility
- good dimensional stability
- high stiffness

Target Industries

- oil and gas industry
- chemical and refinery industry

Mechanical properties	condition	value	unit	test method	comment
Tensile strength	@ 73°F	11,700	psi	ASTM D 638	(1) Units = Shore D
Modulus of elasticity (tensile test)	@ 73°F	1,050,000	psi	ASTM D 790	
Elongation at break (tensile test)	@ 73°F	2.4	%	ASTM D 638	
Flexural strength	@ 73°F	19,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73°F	1,100,000	psi	ASTM D 790	
Compression strength	@ 1%	6,200	psi	ASTM D 695	
Compression strength	@ 10%	24,000	psi	ASTM D 695	
Compression strength	Max Load	24,000	psi	ASTM D 695	
Compression modulus		510,000	psi	ASTM D 695	
Impact strength (Izod)	@ 73°F	0.67	ft-lbs/in	ASTM D 256	
Shore hardness	@73°F; Mscale	92	D	ASTM D 2240	1)
Thermal properties	condition	value	unit	test method	comment
Melting temperature		649	°F	-	

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Date: 2022/07/28

Version: A1