

TECAPEEK CM XP91 natural - Stock Shapes

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige

Density

1.56 g/cm³

Fillers

30% glass fibres

Main features

- excellent mechanical properties
- excellent strength and stiffness
- good chemical resistance
- high continuous use temperature

Target Industries

- oil and gas industry
- energy industry
- chemical plant engineering
- mechanical engineering

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>		<i>test method</i>	<i>comment</i>
Modulus of elasticity (tensile test)	@ 73°F	1,200,000	psi	ASTM D 638	
Tensile strength	@ 73°F	13,000	psi	ASTM D 638	
Elongation at break	@ 73°F	2.1	%	ASTM D 638	
Flexural strength	@ 73°F	21,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73°F	1,000,000	psi	ASTM D 790	
Impact strength (Izod)	@ 73°F	0.74	ft-lbs/in	ASTM D 256	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>		<i>test method</i>	<i>comment</i>
Melting temperature		649	°F	-	

→ Resin specification:
ASTM D4000-11 PEEK; MIL-P-46183 Ty. II Cl. 3, excp. Elong.
Shapes specification:
ASTM D6262-12 S-PAEK0121

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