

## TECAPEEK CM XP106 natural - Stock Shapes (rods, plates, tubes)

### Chemical Designation

PEEK (Polyetheretherketone)

### Colour

beige

### Density

1.68 g/cm<sup>3</sup>

### Fillers

40% glass fibres

### Main features

excellent strength  
broad chemical compatibility  
good dimensional stability  
high stiffness

### Target Industries

oil and gas industry  
chemical and refinery industry

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	@ 73°F	12,000	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@ 73°F	1,200,000	psi	ASTM D 790	
Elongation at break (tensile test)	@ 73°F	1.7	%	ASTM D 638	
Flexural strength	@ 73°F	18,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73°F	1,250,000	psi	ASTM D 790	
Compression strength	@73°F; 1% strain	7,150	psi	ASTM D 695	
Compression strength	@ 73°F; @10% strain	26,250	psi	ASTM D 695	
Compression modulus	@73°F	555,000	psi	ASTM D 695	
Impact strength (Izod)	@ 73°F	0.75	ft/lbs/in	ASTM D 256	
Shore hardness	@ 73°F; D Scale	93		ASTM D 2240	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Melting temperature		649	°F	-	

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