

TECAPEEK CM XP102 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige

Density

1.34 g/cm³

Fillers

5% PTFE

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	15,000	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@73°F	610,000	psi	ASTM D 790	
Elongation at yield (tensile test)	@73°F	7.0	%	ASTM D 638	
Elongation at break (tensile test)	@73°F	8.0	%	ASTM D 638	
Flexural strength	@73°F	22,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	600,000	psi	ASTM D 790	
Compression strength	@ 73°F; @10% strain	20,000	psi	ASTM D 695	
Compression strength	@ 1% strain	5,000	psi	ASTM D 695	
Compression modulus	@73°F	440,000	psi	ASTM D 695	
Impact strength (Izod)	@73°F	0.73	ft-lbs/in	ASTM D 256	
Shore hardness	@ 73°F; D Scale	89		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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