

TECAPEEK CM XP101 black - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

black

Density

1.47 g/cm³

Fillers

15% graphite, 10% 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	8,600	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@73°F	755,000	psi	ASTM D 638	
Elongation at break (tensile test)	@73°F	2.5	%	ASTM D 638	
Flexural strength	@73°F	12,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	740,000	psi	ASTM D 790	
Compression strength	@ 10% strain	17,000	psi	ASTM D 695	
Compression modulus	@73°F	406,000	psi	ASTM D 695	
Notched impact strength (Izod)	@73°F	0.47	ft-lbs/in	ASTM D 256	
Shore hardness	@ 73°F; D Scale	85		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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