

## TECAPEEK CM XP111 black - Stock Shapes (rods, plates, tubes)

### Chemical Designation

PEEK (Polyetheretherketone)

### Colour

black

### Density

1.5 g/cm<sup>3</sup>

### Fillers

carbon 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

	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	@ 73°F	18,700	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@ 73°F Text	2,600,000	psi	ASTM D 790	
Elongation at break (tensile test)	@ 73°F	1.45	%	ASTM D 638	
Flexural strength	@ 73°F	22,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73°F	2,000,000	psi	ASTM D 790	
Compression strength	@73°F; 1% strain	8,900	psi	ASTM D 695	
Compression strength	@ 73°F; @10% strain	35,000	psi	ASTM D 695	
Compression modulus	@ 73°F	840,000	psi	ASTM D 695	
Impact strength (Izod)	@ 73°F	0.87	ft-lbs/in	ASTM D 256	
Rockwell hardness	@ 73°F; M Scale	110		ASTM D 785	
Shore hardness	@73°F; D scale	94		ASTM D 2240	

### Thermal properties

	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Melting temperature		649	°F	-	

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