

## TECAPEEK CM XP100 black - Stock Shapes

### Chemical Designation

PEEK (Polyetheretherketone)

### Colour

black

### Density

1.47 g/cm<sup>3</sup>

### Fillers

10% carbon fibres, 10% graphite, 10% PTFE

### Main features

- excellent wear properties
- excellent chemical resistance
- high creep resistance
- hydrolysis and superheated steam resistant
- inherent flame resistance

### Target Industries

- mechanical engineering
- conveyor technology
- automotive industry
- aircraft and aerospace technology
- precision 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	1,100,000 psi	ASTM D 638	
Tensile strength	@73°F	9,400 psi	ASTM D 638	
Elongation at break	@73°F	1.5 %	ASTM D 638	
Flexural strength	@73°F	16,000 psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	900,000 psi	ASTM D 790	
Compression strength	@73°F	19,200 psi	ASTM D 695	
Compression modulus	@73°F	330,000 psi	ASTM D 695	
Impact strength (Izod)	@73°F, notched	44 ft-lbs/in	ASTM D 256	
Rockwell hardness	M scale	90	ASTM D 785	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Melting temperature		649 °F	-	
Thermal expansion (CLTE)		3.12*10 <sup>-5</sup> in/in/°F	ASTM D 696	
<i>Other properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Moisture absorption	@ 24 hrs	0.06 %	ASTM D 570	

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Call: 1 (866) 437-7427  
 Email: [info@polymershapes.com](mailto:info@polymershapes.com)  
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