

## TECAPEEK CM XP109 black - Stock Shapes (rods, plates, tubes)

## **Chemical Designation**

PEEK (Polyetheretherketone)

30% carbon fibres, 15% PTFE

*Colour* black

Density

**Fillers** 

1.51 g/cm<sup>3</sup>

## Main features

excellent strength broad chemical compatibility good dimensional stability high stiffness

## Target Industries

oil and gas industry chemical and refinery industry

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	@ 73°F	11,800	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@73°F	1,520,000	psi	ASTM D 638	
Elongation at yield (tensile test)	@73°F	1.30	%	ASTM D 638	
Elongation at break (tensile test)	@ 73°F	1.8	%	ASTM D 638	
Flexural strength	@ 73°F	15,500	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73°F	1,500,000	psi	ASTM D 790	
Compression strength	@73°F; 1% strain	7,700	psi	ASTM D 695	
Compression strength	@73°F; 10% strain	20,500	psi	ASTM D 695	
Compression modulus	@73°F	720,000	psi	ASTM D 695	
Notched impact strength (Izod)	@73°F	0.68	ft-lbs/in	ASTM D 256	
Shore hardness	@73°F; D scale	90		ASTM D 2240	
Thermal properties	parameter	value	unit	norm	comment
Melting temperature		649	°F	-	

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