

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/cm³

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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