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

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.51 g/cm^3

Fillers
30% carbon fibres, 15% PTFE

Main features
- excellent strength
- broad chemical compatibility
- good dimensional stability
- high stiffness

Target Industries
- oil and gas industry
- chemical and refinery industry

Mechanical properties	*condition*	*value*	*unit*	*test method*	*comment*
Tensile strength	@ 73°F	10,500	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	*condition*	*value*	*unit*	*test method*	*comment*
Melting temperature		649	°F	-	

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Date: 2022/08/03

Version: A1