TECAPEEK CM XP93GR black - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.52 g/cm^3

Fillers
30% PTFE, graphite

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	4,800	psi	ASTM D 638	(1) Units = Shore D
Modulus of elasticity (tensile test)	@73°F	435,000	psi	ASTM D 790	
Elongation at yield (tensile test)		5.15	%	ASTM D 638	
Elongation at break (tensile test)	@73°F	4.7	%	ASTM D 638	
Flexural strength	@73°F	7,800	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	430,000	psi	ASTM D 790	
Compression strength	@ 1%	4,000	psi	ASTM D 695	
Compression strength	@ 10%	13,000	psi	ASTM D 695	
Compression modulus		290,000	psi	ASTM D 695	
Compression modulus	@ 73°F	274,000	psi	ASTM D 695	
Impact strength (Izod)	notched	0.66	ft-lbs/in	ASTM D 256	
Shore hardness	@ 73°F; Mscale	83	D	ASTM D 2240 1)	

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