TECAPEEK CM XP105 black - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.43 g/cm^3

Fillers
15% 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	9,000	psi	ASTM D 638		(1) Units = Shore D
Modulus of elasticity (tensile test)	@ 73°F	930,000	psi	ASTM D 790		
Elongation at break (tensile test)	@ 73°F	1.8	%	ASTM D 638		
Flexural strength	@ 73°F	13,600	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@ 73°F	780,000	psi	ASTM D 790		
Shore hardness	@ 73°F; Mscale	85	D	ASTM D 2240	1)	

Thermal properties	*condition*	*value*	*unit*	*test method*	*comment*
Melting temperature		649	°F	-	

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