TECAPEEK CM XP97 black - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.53 g/cm^3

Fillers
30% 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	8,000	psi	ASTM D 638		(1) Units = Shore D (2) Units = Rockwell M
Modulus of elasticity (tensile test)	@73°F	1,400,000	psi	ASTM D 638		
Elongation at break (tensile test)	@73°F	1.1	%	ASTM D 638		
Flexural strength	@73°F	12,200	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@73°F	1,000,000	psi	ASTM D 790		
Shore hardness	@ 73°F; Mscale	83	D	ASTM D 2240	1)	
Rockwell hardness	@ 73°F	92		ASTM D 785	2)	

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

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