TECAPEEK CM XP113 black - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.46 g/cm^3

Fillers
15% graphite, 10% 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	8,000	psi	ASTM D 638		(1) Units = Shore D
Modulus of elasticity (tensile test)	@ 73°F	790,000	psi	ASTM D 790		
Elongation at break (tensile test)	@ 73°F	2.10	%	ASTM D 638		
Flexural strength	@ 73°F	13,500	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@ 73°F	700,000	psi	ASTM D 790		
Compression strength	@ 73°F; @10%	17,000	psi	ASTM D 695		
Compression strength	@ 1%	4,800	psi	ASTM D 695		
Compression modulus	@73°F	417,000	psi	ASTM D 695		
Notched impact strength (Izod)	@73°F	0.65	ft-lbs/in	ASTM D 256		
Shore hardness	@ 73°F;	84	D	ASTM D 2240	1)	

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

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