TECAPEEK CM XP114 black - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.44 g/cm^3

Fillers
carbon fibres

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	17,700	psi	ASTM D 638		(1) Units = Shore D (2) Units = Rockwell M
Elongation at break (tensile test)	@ 73°F	1.5	%	ASTM D 638		
Flexural strength	@ 73°F	28,000	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@ 73°F	1,700,000	psi	ASTM D 790		
Notched impact strength (Izod)	@ 73°F	1.11	ft-lbs/in	ASTM D 256		
Shore hardness	@ 73°F; Mscale	89	D	ASTM D 2240	1)	
Rockwell hardness	@ 73°F	123		ASTM D 785	2)	

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

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