TECAPEEK CM XP95 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
beige

Density
1.4 g/cm^3

Fillers
15% PTFE

Main features
- excellent chemical resistance
- excellent mechanical properties
- good thermal stability

Target Industries
- chemical plant engineering
- oil and gas industry

Mechanical properties	*condition*	*value*	*unit*	*test method*		*comment*
Tensile strength	73°F	10,700	psi	ASTM D 638		(1) flexural strain (2) compressive strength (maximum) (3) ASTM Method D-2240 (shore D) (4) units = Rockwell M (5) ASTM D-732
Modulus of elasticity	73°F	500,000	psi	ASTM D 638		
Elongation at break (tensile test)	73°F	7.8	%	ASTM D 638		
Flexural strength	73°F	17,000	psi	ASTM D 790		
Modulus of elasticity (flexural test)		505,000	psi	ASTM D 790		
Bending strain	73°F	5.0	%	-	1)	
Compression strength	73°F	22,000	psi	ASTM D 695	2)	
Compression modulus		450,000	psi	ASTM D 695		
Impact strength (Izod)	notched	0.66	ft-lbs/in	ASTM D 256		
Shore hardness	73°F	85	D	ASTM D 2240	3)	
Rockwell hardness	73°F	93		ASTM D 785	4)	
Shear strength		10,000	psi	-	5)	

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

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