TECAPEEK CM XP117 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
beige

Density
1.45 g/cm^3

Fillers
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	7,500	psi	-		(1) Units = Shore D
Modulus of elasticity (tensile test)	@ 73°F	500,000	psi	ASTM D 638		
Elongation at yield (tensile test)	@73°F	5.0	%	ASTM D 638		
Elongation at break (tensile test)	@ 73°F	5.0	%	ASTM D 638		
Flexural strength	@ 73°F	14,000	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@ 73°F	485,000	psi	ASTM D 790		
Compression strength	@ 73°F	1,600	psi	ASTM D 695		
Shore hardness	@ 73°F	85		ASTM D 2240	1)	

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

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Date: 2022/10/07

Version: A1