TECAPEEK CM XP102 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
beige

Density
1.34 g/cm^3

Fillers
5% 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	15,000	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@73°F	610,000	psi	ASTM D 790	
Elongation at yield (tensile test)	@73°F	7.0	%	ASTM D 638	
Elongation at break (tensile test)	@73°F	8.0	%	ASTM D 638	
Flexural strength	@73°F	22,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	600,000	psi	ASTM D 790	
Compression strength	@ 73°F; @10% strain	20,000	psi	ASTM D 695	
Compression strength	@ 1% strain	5,000	psi	ASTM D 695	
Compression modulus	@73°F	440,000	psi	ASTM D 695	
Impact strength (Izod)	@73°F	0.73	ft-lbs/in	ASTM D 256	
Shore hardness	@ 73°F; D Scale	89		ASTM D 2240	

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

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