TECAPEEK CM XP96 black - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.36 g/cm^3

Main features
- excellent chemical resistance
- excellent mechanical properties
- high thermal resistance

Target Industries
- chemical plant engineering
- oil and gas industry

Mechanical properties	*condition*	*value*	*unit*	*test method*		*comment*
Modulus of elasticity	73°F	770,000	psi	ASTM D 638		(1) Flexural Strain (2) compressive strength (10% deformation) (3) ASTM Test Method D-2240
Tensile strength at break	73°F	13,800	psi	ASTM D 638		
Elongation at break (tensile test)	@73°F	4.5	%	ASTM D 638		
Flexural strength	73°F	22,300	psi	ASTM D 790		
Modulus of elasticity (flexural test)	73°F	700,000	psi	ASTM D 790		
Bending strain	73°F	4.5	%	ASTM D 790	1)	
Compression strength	73°F	19,300	psi	ASTM D 695	2)	
Compression modulus	73°F	360,000	psi	ASTM D 695		
Impact strength (Izod)	73°F	0.58	ft-lbs/in	ASTM D 256		
Shore hardness	73°F	89	D	-	3)	
Rockwell hardness	@73°F; M Scale	101		ASTM D 785		

Thermal properties	*condition*	*value*	*unit*	*test method*	*comment*
Glass transition temperature		289	°F	-	
Melting temperature		649	°F	-	
Heat distortion temperature		300	°F	ASTM D 648	

Other properties	*condition*	*value*	*unit*	*test method*	*comment*
Moisture absorption	24hr	0.05	%	ASTM D 570	

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