TECAPEEK CM XP103 black - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.38 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	17,500	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@73°F	1,400,000	psi	ASTM D 790	
Elongation at break (tensile test)	@73°F	2.5	%	ASTM D 638	
Flexural strength	@73°F	29,500	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	1,300,000	psi	ASTM D 790	
Compression strength	@ 73°F	24,200	psi	ASTM D 695	
Compression modulus	@ 73°F	500,000	psi	ASTM D 695	
Notched impact strength (Izod)	@73°F	0.64	%	ASTM D 256	
Shore hardness	@ 73°F; D Scale	92		ASTM D 2240	

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

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