TECAPEEK CM XP117GR black - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.46 g/cm^3

Fillers
PTFE, graphite

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	7,600	psi	ASTM D 638		(1) Units = Shore D
Modulus of elasticity (tensile test)	@73°F	425,000	psi	ASTM D 638		
Elongation at yield (tensile test)	@73°F	5.0	%	ASTM D 638		
Elongation at break (tensile test)	@73°F	5.2	%	ASTM D 638		
Flexural strength	@73°F	17,750	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@73°F	480,000	psi	ASTM D 790		
Compression strength	@73°F; 10%	15,000	psi	ASTM D 695		
Compression strength	@ 1%	4,200	psi	ASTM D 695		
Compression modulus	@73°F	320,000	psi	ASTM D 695		
Notched impact strength (Izod)	@73°F	0.66	ft-lbs/in	ASTM D 256		
Shore hardness	@73°F	82	D	ASTM D 2240	1)	

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