

# TECAPEEK CM XP117 GR black - Stock Shapes (rods, plates, tubes)

## Chemical Designation

PEEK (Polyetheretherketone)

## Colour

black

## Density

1.46 g/cm<sup>3</sup>

## 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	parameter	value	unit	norm	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	@ 1%	4,200	psi	ASTM D 695	
Compression strength	@73°F; 10%	15,000	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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