

# TECAPEEK CM XP119 GR black - Stock Shapes (rods, plates, tubes)

## Chemical Designation

PEEK (Polyetheretherketone)

## Colour

black

## Density

1.37 g/cm<sup>3</sup>

## Fillers

carbon fibres, graphite

## Main features

excellent strength  
broad chemical compatibility  
good dimensional stability  
high stiffness

## Target Industries

chemical and refinery industry  
oil and gas industry

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	@73°F	15,000	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@73°F	1,050,000	psi	ASTM D 638	
Elongation at break (tensile test)	@73°F	2.55	%	ASTM D 638	
Flexural strength	@73°F	18,500	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	1,200,000	psi	ASTM D 790	
Compression strength	@73°F, 10% strain	24,000	psi	ASTM D 695	
Compression strength	@ 1%	7,040	psi	ASTM D 695	
Compression modulus	@73°F	550,000	psi	ASTM D 695	
Shore hardness	D Scale	89		ASTM D 2240	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Melting temperature		649	°F	-	

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