

# TECAPEEK CM GF30 black (XP91) - Stock Shapes (rods, plates, tubes)

**Chemical Designation**  
PEEK (Polyetheretherketone)

**Colour**  
black

**Density**  
1.58 g/cm<sup>3</sup>

**Fillers**  
30% glass fibres

**Main features**  
excellent strength  
broad chemical compatibility  
good dimensional stability  
high stiffness

**Target Industries**  
oil and gas industry  
chemical plant engineering

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	@73°F	11,700	psi	ASTM D 638	(1) Units = Shore D
Modulus of elasticity (tensile test)	@73°F	1,050,000	psi	ASTM D 790	
Elongation at break (tensile test)	@73°F	2.4	%	ASTM D 638	
Flexural strength	@73°F	19,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	1,100,000	psi	ASTM D 790	
Compression strength	@73°F, 10% strain	24,000	psi	ASTM D 695	
Compression strength	@ 1%	6,200	psi	ASTM D 695	
Compression modulus		510,000	psi	ASTM D 695	
Impact strength (Izod)		0.67	ft-lbs/in	ASTM D 256	
Shore hardness	@73°F	92	D	ASTM D 256	1)
<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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