

TECAPEEK CM HT black (XP98HT) - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEK (Polyetherketone)

Colour
black

Density
1.43 g/cm³

Fillers
30% carbon fibres

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

Target Industries
oil and gas industry
chemical and refinery industry

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	@73°F	20,000	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@73°F	1,500,000	psi	ASTM D 638	
Elongation at break (tensile test)	@73°F	3.2	%	ASTM D 638	
Flexural strength	@73°F	32,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	1,200,000	psi	ASTM D 790	
Compression strength	@ 1%	930	psi	ASTM D 695	
Compression strength	Max Load	3,800	psi	ASTM D 695	
Compression strength	@ 10%	36,500	psi	ASTM D 695	
Compression modulus	@73°F	870,000	psi	ASTM D 695	
Notched impact strength (Izod)	@73°F	0.86	ft-lbs/in	ASTM D 256	
Shore hardness	@ 73°F; D Scale	94	D	ASTM D 2240	

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