

TECAPEEK CM CF30 black (XP98ST) - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

black

Density

1.43 g/cm³

Fillers

30% carbon fibres

Main features

excellent chemical resistance
 excellent mechanical properties
 high thermal resistance
 excellent wear properties

Target Industries

chemical plant engineering
 oil and gas industry

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	73°F	22,310	psi	ASTM D 638	(1) units = Rockwell M
Modulus of elasticity	73°F	2,851,000	psi	ASTM D 638	
Elongation at break (tensile test)	73°F	1.7	%	ASTM D 638	
Flexural strength	73°F	29,100	psi	ASTM D 790	
Modulus of elasticity (flexural test)	73°F	2,130,000	psi	ASTM D 790	
Bending strain	73°F	2.4	%	ASTM D 790	
Compression strength	73°F	28,400	psi	ASTM D 695	
Compression modulus	73°F	626,200	psi	ASTM D 695	
Notched impact strength (Izod)	73°F	.55	ft-lbs/in	ASTM D 256	
Rockwell hardness	73°F	125		ASTM D 785	1)

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