

TECAPEEK CM MT black (XP98MT) - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

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

Mechanical properties	parameter	value	unit	norm		comment
Tensile strength	@73°F	19,000	psi	ASTM D 638		(1) Units = Rockwell M
Modulus of elasticity (tensile test)	@73°F	1,840,000	psi	ASTM D 790		
Elongation at yield (tensile test)	@73°F	2.3	%	ASTM D 638		,
Elongation at break (tensile test)	@73°F	2.5	%	ASTM D 638		
Flexural strength	@73°F	32,500	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@73°F	1,600,000	psi	ASTM D 790		
Compression strength	@ 73°F; @10%	32000	psi	ASTM D 695		
Compression strength	@ 1%	7,700	psi	ASTM D 695		
Compression modulus	@ 73°F	770,000	psi	ASTM D 695		
Impact strength (Izod)	@73°F	1.00	ft-lbs/in	ASTM D 256		
Shore hardness	@ 73°F; D Scale	93		ASTM D 2240		
Rockwell hardness	@ 73°F	102		ASTM D 785	1)	
Shear strength	@73°F	13,000	psi	-		
Thermal properties	parameter	value	unit	norm		comment
Melting temperature		649	°F	-		
Heat distortion temperature		>459	°F	ASTM D 648		

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