

TECAPEEK CM TF30 black (XP93GR) - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.52 g/cm³

Fillers
30% PTFE

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	4,800	psi	ASTM D 638	(1) Units = Shore D
Modulus of elasticity (tensile test)	@73°F	435,000	psi	ASTM D 790	
Elongation at yield (tensile test)		5.15	%	ASTM D 638	
Elongation at break (tensile test)	@73°F	4.7	%	ASTM D 638	
Flexural strength	@73°F	7,800	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	430,000	psi	ASTM D 790	
Compression strength	@ 1%	4,000	psi	ASTM D 695	
Compression strength	@ 10%	13,000	psi	ASTM D 695	
Compression modulus		290,000	psi	ASTM D 695	
Compression modulus	@ 73°F	274,000	psi	ASTM D 695	
Impact strength (Izod)	notched	0.66	ft-lbs/in	ASTM D 256	
Shore hardness	@ 73°F; Mscale	83	D	ASTM D 2240	1)

This information reflects the current state of our knowledge and is intended only to assist and advise. It is given without obligation or liability. It does not assure or guarantee chemical resistance, quality of products or their suitability in any legally binding way. Values are not minimum or maximum values, but guidelines that can be used for comparative purposes in material selection. They are within the normal range of product properties and do not represent guaranteed property values. Testing under individual application circumstances is always recommended. Data is obtained from extruded shapes material unless otherwise noted. References to FDA compliance refer to the resins from which the products were made unless otherwise noted. All trade and patent rights should be observed. All rights reserved. Data sheet values are subject to periodic review, the most recent update can be found at www.ensingerplastics.com.

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