

TECAPEEK CM TF15 beige (XP-95) - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige

Density

1.4 g/cm³

Fillers

15% PTFE

Main features

excellent chemical resistance
excellent mechanical properties
good thermal stability

Target Industries

chemical plant engineering
oil and gas industry

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	73°F	10,700	psi	ASTM D 638	(1) flexural strain
Modulus of elasticity	73°F	500,000	psi	ASTM D 638	(2) compressive strength (maximum)
Elongation at break (tensile test)	73°F	7.8	%	ASTM D 638	(3) units = Rockwell M
Flexural strength	73°F	17,000	psi	ASTM D 790	(4) ASTM Method D-2240 (shore D)
Modulus of elasticity (flexural test)		505,000	psi	ASTM D 790	(5) ASTM D-732
Bending strain	73°F	5.0	%	-	1)
Compression strength	73°F	22,000	psi	ASTM D 695	2)
Compression modulus		450,000	psi	ASTM D 695	
Impact strength (Izod)	notched	0.66	ft-lbs/in	ASTM D 256	
Rockwell hardness	73°F	93		ASTM D 785	3)
Shore hardness	73°F	85	D	ASTM D 2240	4)
Shear strength		10,000	psi	-	5)
<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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