

TECAPEEK CM TF30 beige(XP93) - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige

Density

1.48 g/cm³

Fillers

30% PTFE

Main features

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

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>
Modulus of elasticity (tensile test)	73°F	420,000	psi	ASTM D 638	
Tensile strength at break	73°F	7,000	psi	ASTM D 638	
Elongation at yield (tensile test)	@73°F	5	%	ASTM D 638	
Elongation at break (tensile test)		5	%	ASTM D 638	
Flexural strength	73°F	12,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	73°F	400,000	psi	ASTM D 790	
Bending strain	73°F	4.5	%	ASTM D 790	
Compression strength	@ 1%	4,000	psi	ASTM D 695	
Compression strength	@ 10%	14,000	psi	ASTM D 695	
Compression strength	Max Load	16,000	psi	ASTM D 695	
Compression modulus		305,000	psi	ASTM D 695	
Impact strength (Izod)	notched	0.57	ft-lbs/in	ASTM D 256	
Notched impact strength (Izod)	73°F	.52	ft-lbs/in	ASTM D 256	
Shore hardness	D Scale	82		ASTM D 2240	
<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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