

TECAPEEK CM XP96 natural - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige opaque

Density

1.36 g/cm³

production process: compression moulding

Main features

- → inherent flame retardant
- → good heat deflection temperature
- hydrolysis and superheated steam resistant
- → good machinability
- → good slide and wear properties

Target Industries

Date: 2019/01/07

→ oil and gas industry

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength		95	MPa	ASTM D 638	
Modulus of elasticity (tensile test)		5300	MPa	ASTM D 638	
Elongation at break (tensile test)		4.5	%	ASTM D 638	
Flexural strength		153	MPa	ASTM D 790	
Modulus of elasticity (flexural test)		4800	MPa	ASTM D 790	
Compression modulus		2400	MPa	ASTM D 695	
Shore hardness	Shore D	89		ASTM D 2240	
Thermal properties	parameter	value	unit	norm	comment
Melting temperature	DSC	342	°C	-	
Heat distortion temperature		148	°C	ASTM D 648	··············
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[→] TECAPEEK products are based on Victrex® PEEK polymer.

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Manufactured by: Ensinger Group, a German based plastic manufacturer

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