

TECAPEEK CM XP91 natural - Stock Shapes

Chemical Designation

PEEK (Polyetheretherketone)

Colour

beige

Density

1.56 g/cm³

Fillers

30% glass fibres

Main features

- excellent mechanical properties
- excellent strength and stiffness
- good chemical resistance
- high continuous use temperature

Target Industries

- oil and gas industry
- energy industry
- chemical plant engineering
- mechanical engineering

<i>Mechanical properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Modulus of elasticity (tensile test)	@ 73°F	1,200,000 psi	ASTM D 638	
Tensile strength	@ 73°F	13,000 psi	ASTM D 638	
Elongation at break	@ 73°F	2.1 %	ASTM D 638	
Flexural strength	@ 73°F	21,000 psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73°F	1,000,000 psi	ASTM D 790	
Impact strength (Izod)	@ 73°F	0.74 ft-lbs/in	ASTM D 256	
<i>Thermal properties</i>	<i>condition</i>	<i>value</i>	<i>test method</i>	<i>comment</i>
Melting temperature		649 °F	-	

- Resin specification:
ASTM D4000-11 PEEK; MIL-P-46183 Ty. II Cl. 3, excp. Elong.
Shapes specification:
ASTM D6262-12 S-PAEK0121

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.

Date: 2017/10/12

Version: A0

Distributed by:  Polymershapes

Call: 1 (866) 437-7427
Email: info@polymershapes.com
www.polymershapes.com