

# TECAPEEK CM SD natural (XP115) - Stock Shapes (rods, plates, tubes)

**Chemical Designation**  
PEEK (Polyetheretherketone)

**Colour**  
grey

**Density**  
1.37 g/cm<sup>3</sup>

**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	12,300	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@ 73°F	700,000	psi	ASTM D 790	
Elongation at break (tensile test)	@ 73°F	4.3	%	ASTM D 638	
Flexural strength	@ 73°F	18,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73°F	600,000	psi	ASTM D 790	
Impact strength (Izod)	@ 73°F	2.50	ft/lbs/in	ASTM D 256	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Melting temperature		649	°F	-	
<i>Electrical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Volume resistivity		10 <sup>12</sup>	Ω*cm	ASTM D 257	
Surface resistivity		10 <sup>12</sup>	Ω/sq	ASTM D 257	

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](http://www.ensingerplastics.com).

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Date: 2023/01/17

Version: A1