

## TECAPEEK CM XP250 natural - Stock Shapes (rods, plates, tubes)

### Chemical Designation

PEEK (Polyetheretherketone)

### Colour

dark brown

### Density

1.31 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> Text	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	@73°F	19,000	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@73°F	800,000	psi	ASTM D 638	
Elongation at break (tensile test)	@73°F	3.8	%	ASTM D 638	
Flexural strength	@73°F	29,100	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	800,000	psi	ASTM D 790	
Impact strength (Izod)	@73°F	0.6	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	-	
Heat distortion temperature		503	°F	ASTM D 648	
Thermal conductivity		2.1	BTU-in/hr-ft <sup>2</sup> -°F	ASTM C 177	

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).

Ensinger Inc. Headquarters  
365 Meadowlands Boulevard  
Washington, PA 15301, USA

Phone 800-243-3221 Sales  
Phone 800-869-4029 Technical  
Fax 724-746-9209  
[sales@ensingerusa.com](mailto:sales@ensingerusa.com)

Date: 2020/10/01

Version: