

TECAPEEK CM XP113 black - Stock Shapes (rods, plates, tubes)

Chemical Designation

PEEK (Polyetheretherketone)

Colour

black

Density

1.46 g/cm³

Fillers

15% graphite, 10% PTFE

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	8,000	psi	ASTM D 638	(1) Units = Shore D
Modulus of elasticity (tensile test)	@ 73°F	790,000	psi	ASTM D 790	
Elongation at break (tensile test)	@ 73°F	2.10	%	ASTM D 638	
Flexural strength	@ 73°F	13,500	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@ 73°F	700,000	psi	ASTM D 790	
Compression strength	@ 1%	4,800	psi	ASTM D 695	
Compression strength	@ 73°F; @10%	17,000	psi	ASTM D 695	
Compression modulus	@73°F	417,000	psi	ASTM D 695	
Notched impact strength (Izod)	@73°F	0.65	ft-lbs/in	ASTM D 256	
Shore hardness	@ 73°F;	84	D	ASTM D 2240	1)
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Melting temperature		649	°F	-	

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.

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

Date: 2022/08/02

Version: A1