TECAPEEK CM XP119 black - Stock Shapes (rods, plates, tubes)

Chemical Designation
PEEK (Polyetheretherketone)

Colour
black

Density
1.35 g/cm^3

Fillers
10% carbon fibres

Main features
- excellent strength
- broad chemical compatibility
- good dimensional stability
- high stiffness

Target Industries
- oil and gas industry
- chemical and refinery industry

Mechanical properties	*condition*	*value*	*unit*	*test method*		*comment*
Tensile strength	@73°F	17,000	psi	-		(1) Units = Rockwell M
Modulus of elasticity (tensile test)	@73°F	500,000	psi	ASTM D 790		
Elongation at break (tensile test)	@73°F	4.9	%	-		
Flexural strength	@73°F	28,300	psi	ASTM D 790		
Modulus of elasticity (flexural test)	@73°F	1,100,000	psi	ASTM D 790		
Compression strength	@73°F	25,000	psi	ASTM D 695		
Compression modulus	@73°F	450,000	psi	ASTM D 695		
Notched impact strength (Izod)	@73°F	0.55	ft-lbs/in	ASTM D 256		
Rockwell hardness	@73°F	98		ASTM D 785	1)	

Thermal properties	*condition*	*value*	*unit*	*test method*	*comment*
Melting temperature		649	°F	-	

Information about products and services sold by Ensinger, including without limitation information contained in this document do not constitute a warranty by Ensinger as to the quality and state or durability of products or services, or any guarantee of chemical resistance. Such information reflects the current state of our knowledge and is intended only to assist and advise the recipient. The recipient shall not be entitled to rely on Ensinger provided information and the recipient agrees to evaluate such information, to make an independent decision regarding the suitability of such information, products and services for its application, and only use such products, services and information pursuant to then current good product stewardship principles and all regulatory requirements applicable to the recipient's business. Values are 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. Data sheet values are subject to periodic review and 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: 2020/10/01

Version: A0