

TECATRON PPS CM CF20 black (XP87) - Stock Shapes (rods, plates, tubes)

Chemical Designation

PPS (Polyphenylsulfide)

Colour

black

Density

1.45 g/cm³

Fillers

20% carbon fibres

Main features

excellent stiffness
broad chemical compatibility
good slide and wear properties

Target Industries

oil and gas industry
others

Mechanical properties	parameter	value	unit	norm	comment
Modulus of elasticity (tensile test)		1,050,000	psi	ASTM D 638	
Tensile strength at break		10,200	psi	ASTM D 638	
Elongation at break (tensile test)		1.3	%	ASTM D 638	
Flexural strength		15,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)		1,100,000	psi	ASTM D 790	
Compression strength	@ 1%	7,600	psi	ASTM D 695	
Compression strength	@ 10%	22,000	psi	ASTM D 695	
Compression modulus		675,200	psi	ASTM D 695	
Impact strength (Izod)	notched	0.55	ft-lbs/in	ASTM D 256	
Rockwell hardness	Shore D	90		ASTM D 785	

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.

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