

TECATRON PPS CM black (XP74) - Stock Shapes (rods, plates, tubes)

Chemical Designation

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Colour

black

Density

1.57 g/cm³

Fillers

carbon fibres, PTFE fibres

Main features

broad chemical compatibility
high thermal and mechanical capacity
good slide and wear properties

Target Industries

oil and gas industry
others
chemical technology

<i>Mechanical properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Tensile strength	@73°F	6,800	psi	ASTM D 638	
Modulus of elasticity (tensile test)	@73°F	1,400,000	psi	ASTM D 638	
Elongation at break (tensile test)	@73°F	0.6	%	ASTM D 638	
Flexural strength	@73°F	13,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	1,500,000	psi	ASTM D 790	
Compression strength	@73°F; 1% strain	4,400	psi	ASTM D 695	
Compression modulus	@73°F	530,000	psi	ASTM D 695	
Notched impact strength (Izod)	@73°F	0.60	ft-lbs/in	ASTM D 256	
Shore hardness	D Scale	89		ASTM D 2240	
<i>Thermal properties</i>	<i>parameter</i>	<i>value</i>	<i>unit</i>	<i>norm</i>	<i>comment</i>
Thermal expansion (CLTE)		100 10 ⁻⁶	1/°F	ASTM E 831	

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