TECATRON PPS CM CF30 black (XP85) - Stock Shapes (rods, plates, tubes)

Chemical Designation
PPS (Polyphenylensulfide)

Colour
black

Density
1.47 g/cm^3

Fillers
30% carbon fibres

Main features
good chemical resistance
excellent wear properties
very good bearing and wear properties

Target Industries
oil and gas industry
others

Mechanical properties	parameter	value	unit	norm	comment
Modulus of elasticity (tensile test)		1,200,000	psi	ASTM D 638	
Tensile strength at break		12,000	psi	ASTM D 638	
Elongation at break (tensile test)		1.76	%	ASTM D 638	
Flexural strength		20,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)		1,300,000	psi	ASTM D 790	
Compression strength	Max Load	26,000	psi	ASTM D 695	
Compression strength	@ 10%	23,000	psi	ASTM D 695	
Compression strength	@ 1%	7,000	psi	ASTM D 695	
Compression modulus	Secant @ 0.5% strain	885,000	psi	ASTM D 695	
Compression modulus		680,000	psi	ASTM D 695	
Notched impact strength (Izod)		.74	ft-lbs/in	ASTM D 256	
Shore hardness	D Scale	91		ASTM D 2240	