TECATRON PPS CM GF25 natural (XP61) - Stock Shapes (rods, plates, tubes)

Chemical Designation
PPS (Polyphenylensulfide)

Colour
dark brown

Density
1.75 g/cm^3

Fillers
glass fibres, mineral filler

Main features
  excellent stiffness
  good chemical resistance

Target Industries
  oil and gas industry

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	@73°F	7,400	psi	ASTM D 638	(1) ASTM D-732
Modulus of elasticity (tensile test)		1,100,000	psi	ASTM D 638	
Elongation at yield (tensile test)	@73°F	0.95	%	ASTM D 638	
Elongation at break (tensile test)		1.0	%	ASTM D 638	
Flexural strength		11,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)		960,000	psi	ASTM D 790	
Compression strength	@73°F; 10% strain	16,400	psi	ASTM D 695	
Compression strength	@73°F; 1% strain	6,400	psi	ASTM D 695	
Compression modulus	@73°F	590,000	psi	ASTM D 695	
Impact strength (Izod)		0.45	ft-lbs/in	ASTM D 256	
Shore hardness	D Scale	89		ASTM D 2240	
Shear strength		6,500	psi	-	1)

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