

## TECASINT CM black (XP135) - Stock Shapes (rods, plates, tubes)

Chemical Designation

PI (Polyimide)

Colour black

Density

1.48 g/cm<sup>3</sup>

**Fillers** 

graphite, PTFE

Main features

very high continuous use temperature good chemical resistance improved toughness Target Industries

Date: 2023/01/19

oil and gas industry chemical technology power engineering others

Mechanical properties	parameter	value	unit	norm	comment
Tensile strength	@73°F	13,000	psi	ASTM D 638	
Elongation at break (tensile test)	@73°F	3.5	%	ASTM D 638	
Flexural strength	@73°F	19,000	psi	ASTM D 790	
Modulus of elasticity (flexural test)	@73°F	450,000	psi	ASTM D 790	······································
Compression strength	@73°F; 10% strain	28,000	psi	ASTM D 695	
Notched impact strength (Izod)	@73°F	0.47	ft-lbs/in	ASTM D 256	
Rockwell hardness	@73°F; M Scale	110		ASTM D 785	
Thermal properties	parameter	value	unit	norm	comment
Thermal expansion (CLTE)		23.3 10 <sup>-</sup> <sup>6</sup> /°F		ASTM D 696	
Other properties	parameter	value	unit	norm	comment
Moisture absorption	24hr	0.5	%	ASTM D 570	
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