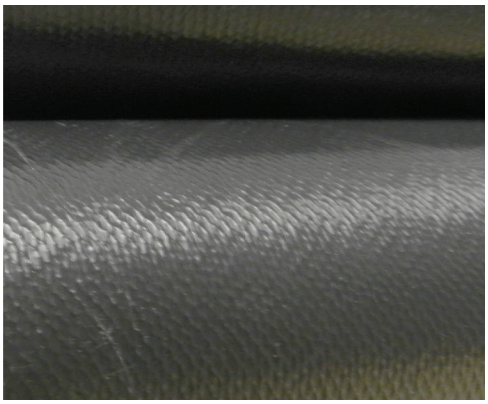
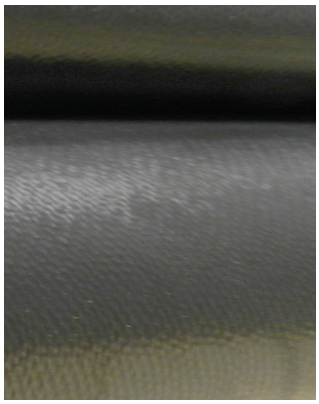
ChemShield® 4430 Material Specification





Property Ratings

Resistance to Vibration	*Excellent*
Resistance to Movements	*Excellent*
Resistance to Abrasion	*Very Good*
Resistance to Solvents	*Excellent*
Resistance to Oils	*Excellent*
Resistance to Alkali	*Excellent*
Resistance to Dilute Acids	*Excellent*
Resistance to Concentrated Acids	*Excellent*
Resistance to Flames	*Not Recommended*
Resistance to Weather / UV	*Excellent*

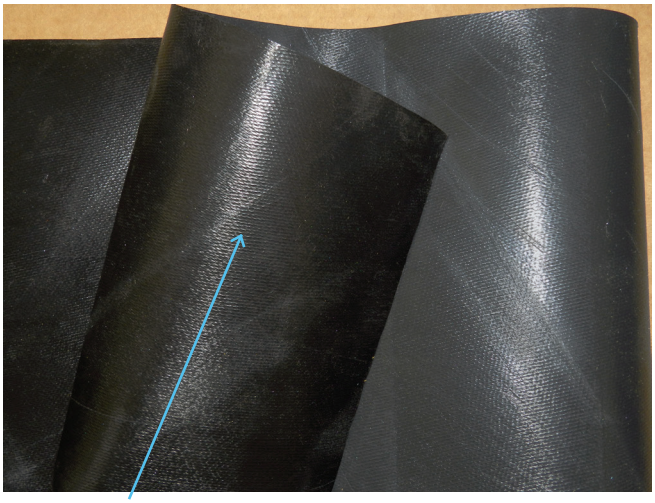
Physical Properties

Materials of Construction

Zero Porosity 100% PTFE & Perfluoroplastic Resin with Multi-Directional Strength

Max. Operating Temperature:	*600˚F (316˚C)*
Min. Operating Temperature:	*-80˚F (-62˚C)*
Weight:	*44 oz/yd2 (1492 g/m2)*
Thickness:	*.030" (0.76mm)*
Tensile Strength (Warp):	*127 lbs/in (1135 N/50mm)*
Tensile Strength (Fill):	*82 lbs (372.1 N)*
Maximum Pressure:	*2 PSI*
Minimum Pressure:	*-2 PSI*

ChemShield 4430 Materials



100% PTFE and Perfluoroplastic Resin material with multi-directional strength. Available in various colors.

Our ChemShield® III 4430 is a unique material fabricated entirely from PTFE and resins for excellent stress crack resistance and flexibility. Since ChemShield® III is a self supporting material, no reinforcements are required that may be subject to chemical attack.

ChemShield® III 4430 is the most common thickness in the ChemShield® III series of materials. The 30 mil thickness provides excellent flexibility with very good strength. Our ChemShield® III series should be used when extreme conditions exist, including concentrated acids or cycling and pulsating. Many colors are available including black, white, blue, and red.

ChemShield® and FlexCom® are registered trademarks of Flexible Compensators, Inc. This information is supplied in good faith and is based on information currently available.

FlexCom® Flexible Compensators, Inc. • 6864 Chrisphalt Drive • Bath, PA 18014
phone: 610.837.3812 • toll free: 1.888.376.FLEX
www.flexcomonline.com • sales@flexcomonline.com