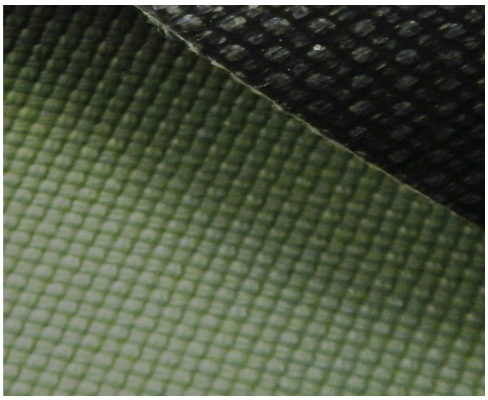
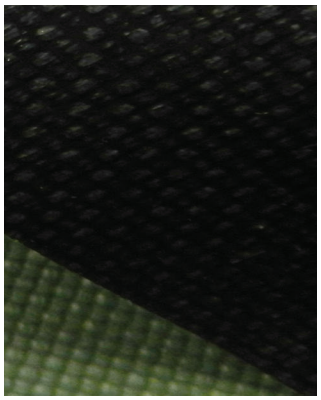
ChemShield® 5407 Material Specification





Property Ratings

Resistance to Vibration	*Very Good*
Resistance to Movements	*Very Good*
Resistance to Abrasion	*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*

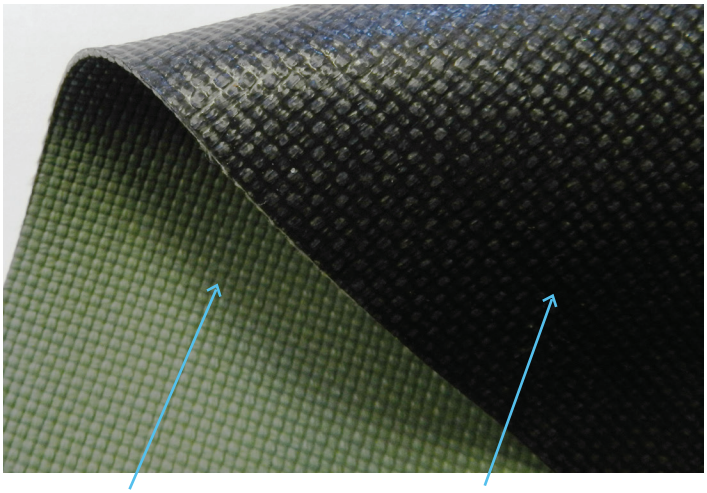
Physical Properties

Materials of Construction

Zero Porosity PTFE Film Laminated to a Flexible PTFE Coated Fiberglass Cloth

Max. Operating Temperature:	*600˚F (316˚C)*
Min. Operating Temperature:	*-80˚F (-62˚C)*
Weight:	*60 oz/yd2 (2035 g/m2)*
Thickness:	*0.047" (1.2mm)*
Tensile Strength (Warp):	*1200 lbs/in (10724 N/50mm)*
Tensile Strength (Fill):	*1200 lbs/in (10724 N/50mm)*
Maximum Pressure:	*5 PSI (3518 mm wc)*
Minimum Pressure:	*-3 PSI (-2110 mm wc)*

ChemShield® 5407 Materials



PTFE Corrosion / Gas Barrier
Weight: 13.5 oz/yd2 (458 g/m2)
Thickness: 0.009" (0.23mm)
Tensile Strength: 25 lb/in (223 N/50mm)
Tear Strength: 22Lb (99.8 N)

PTFE Coated Fiberglass Cloth

The picture at left shows the two components that make up the ChemShield® 5407 material. The outer PTFE coated fiberglass cloth provides the load bearing component, while the inner PTFE film provides the gas and corrosion barrier. The two layers are laminated together to form a single layer composite material capable of resisting stress cracking while providing flexibility and temperature resistance.

Our ChemShield® 5407 is our most versatile material combining flexibilty and strength. This material works very well for most fan applications as well as for an outer gas barrier on our FlexCom® composite belts. Our Chem - Shield® 5407 material is the best choice for light to moder - ate duty with limited abrasion resistance requirements.

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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