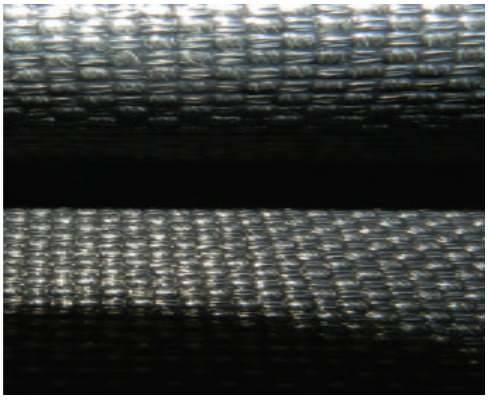
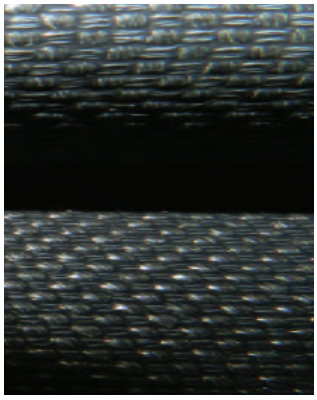
ChemShield® 8112 Material Specification





Property Ratings

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

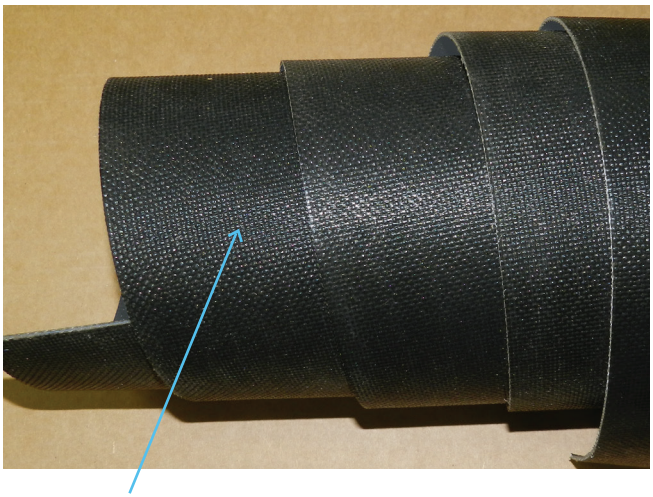
Physical Properties

Materials of Construction

Zero Porosity 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:	*81 oz/yd2*
Thickness:	*0.072”*
Tensile Strength (Warp):	*1200 lbs/in (10724 N/50mm)*
Tensile Strength (Fill):	*1200 lbs/in (10724 N/50mm)*
Maximum Pressure:	*7 PSI*
Minimum Pressure:	*-3 PSI*

ChemShield® 8112 Materials



PTFE Corrosion / Gas Barrier

Weight: 24 oz/yd2 (814 g/m2)
Thickness: 0.016” (0.40mm)
Tensile Strength: 63 lb/in (563 N/50mm)
Tear Strength: 22Lb (99.8 N)

The picture at left shows the two components that make up the ChemShield® 8112 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® 8112 is one of our most durable materi - als combining flexibilty and strength. This material has a 0.016” thick PTFE corrosion barrier for harsh conditions where chemical attack exists. Our ChemShield® II 8112 material is the best choice for heavy duty use with abrasion resistance requirements. This product is ideal for use in utility plants

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