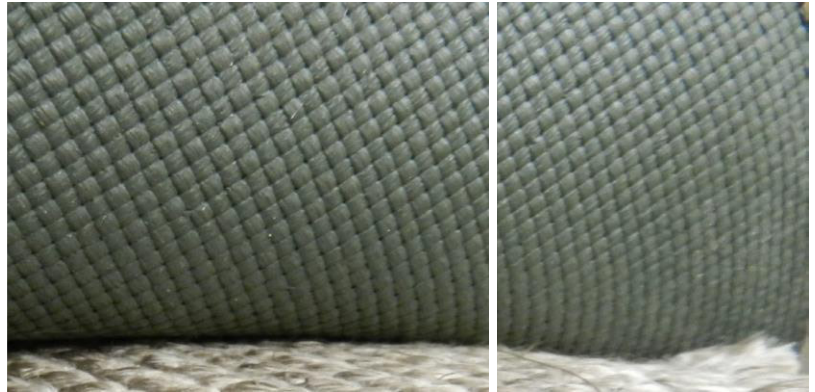


## FlexLam® 1000 Material Specification



### Property Ratings

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

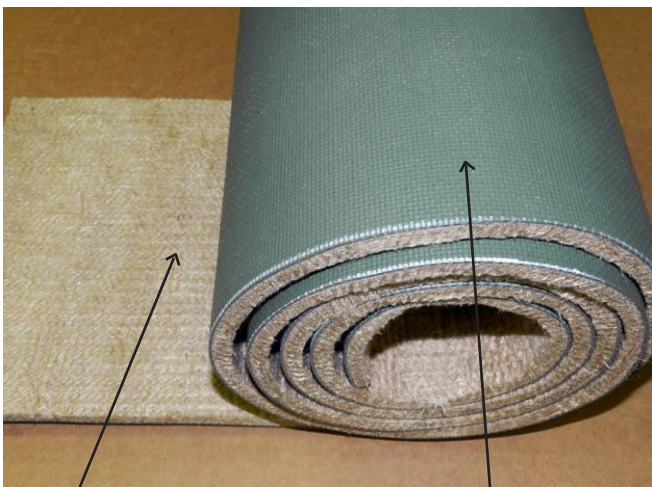
### Physical Properties

#### Materials of Construction

Zero Porosity PTFE Film and Flexible PTFE Coated Fiberglass Cloth Laminated to a 1/2 in. thick nonwoven insulation mat.

<b>Max. Operating Temperature:</b>	1000° F (538° C)
<b>Min. Operating Temperature:</b>	-45° F (-43° C)
<b>Weight:</b>	121 oz/yd <sup>2</sup> (4104g/m <sup>2</sup> )
<b>Thickness:</b>	0.540" (13.7mm)
<b>Tensile Strength (Warp):</b>	1200 lbs/in (10724 N/50mm)
<b>Tensile Strength (Fill):</b>	1200 lbs/in (10724 N/50mm)
<b>Maximum Pressure:</b>	5 PSI (3518 mm wc)
<b>Minimum Pressure:</b>	-3 PSI (-2110 mm wc)

### FlexLam® 1000 Materials



**Nonwoven Fiberglass Mat**  
100oz sq. yard

**PTFE Corrosion / Gas Barrier**  
Weight: 13.5 oz/yd<sup>2</sup> (458 g/m<sup>2</sup>)  
Thickness: 0.009" (.23mm)  
Tensile Strength: 25 lb/in (223 N/50mm)

The picture at left shows the two components that make up the FlexLam® 1000 composite material. The outer ChemShield® material provides a flexible gas barrier while the inner nonwoven fiberglass mat provides additional temperature protection. The two layers are laminated together to form a single layer composite material capable of resisting stress cracking while providing flexibility and temperature resistance up to 1000 degrees continuously.

Our FlexLam® 1000 is our highest temperature composite material that can be fabricated as a U-shaped expansion joint belt. The material combines both strength, temperature resistance with very good flexibility. This material works very well for high temperature fan applications as well as any application requiring superior temperature resistance in a single layer composite product. Our FlexLam® 1000 material is the best choice for heavy duty service for elevated temperatures.

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