



FLEXIBLE  
SPECIALTY  
PRODUCTS

# ToughFlex

## Material Specification

### Material Description

Our ToughFlex product is one of our most durable materials combining strength and durability. The 12 mil center PTFE gas barrier provides the protection required for wet or dry service. The durable inner and outer layers are constructed of a PTFE coated fiberglass that provides the durability, strength and abrasion resistance required for the most demanding applications.

The ToughFlex material can withstand continuous temperatures to 600F and is not affected by UV light. All ToughFlex materials are easily repaired on-site with a repair kit provided by FSP. Contact our sales staff to see if this is the correct material for your application



#### Construction:

PTFE Coated Woven Fiberglass load bearing component inside and outside with 12 mil PTFE film center layer to form a 3 layer composite



PTFE Coated Fiberglass Cloth  
(inside & outside)

\*12 mil PTFE Center Gas

### Physical Properties

**Maximum Temperature:** 600°F (316°C) Continuous

**Minimum Temperature:** -80°F (-62°C) Continuous

**Weight:** 81 oz/yd<sup>2</sup> (2748 g/m<sup>2</sup>)

**Thickness:** 0.072+(1.8 mm)

**Tensile Strength (Warp):** 1200 lbs/in (10508 N/50 mm)

**Tensile Strength (Fill):** 1200 lbs/in (10508 N/50 mm)

**Maximum Pressure:** 7 PSI (4925 mm wc)

**Minimum Pressure:** -3 PSI (-2110 mm wc)

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This information supplied in good faith and is based on information currently available. Contact a sales representative at FSP to verify suitability to specific applications and design conditions