

# Flexitallic®

**novus™**  
a Flexitallic brand

## Data / Specification Sheet • Novus Uniflon 51

**Novus Uniflon 51** is a superior performance biaxially orientated PTFE sheet material with a silica filler.

### Service

Novus Uniflon 51 is a general purpose grade for sealing applications across the whole pH range. It is particularly suitable for use with strong acids (except hydrofluoric acid) and alkalis. Other applications include solvents, fuels, water, steam, and chlorine. (See the chemical resistance chart for information).

### Approvals / Compliance

Conforms with FDA21 CFR 177.1550 regulations.

### Availability

Thickness range:  
0.75mm to 3.0mm

Standard sheet sizes:

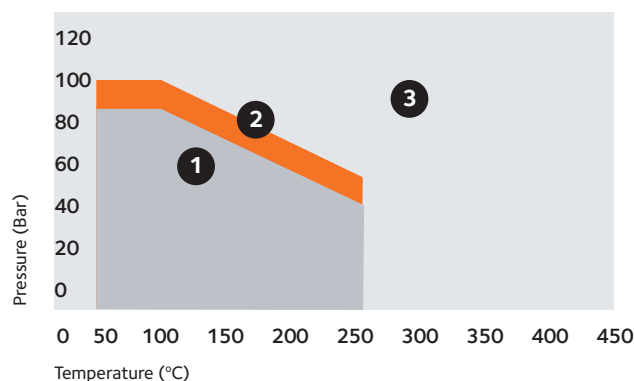
1.0m x 1.0m  
1.5m x 1.0m  
2.0m x 1.0m  
1.5m x 1.5m  
2.0m x 1.5m  
2.0m x 2.0m



### Physical properties

<b>Thickness</b>		1.5mm
<b>Density</b>		2.2g/cc
<b>Tensile Strength</b>	ASTM F152	15MPa
<b>Compression</b>	ASTM F36	7%
<b>Recovery</b>	ASTM F36	40% min
<b>Residual Stress</b>	DIN @ 175°C	32MPa
<b>Creep Relaxation</b>	ASTM F38	23%
<b>Gas Permeability</b>	DIN 3535	<0.01cc/min
<b>Liquid Leakage</b>	ASTM F37	0.21ml/hr

### Novus Uniflon 51 Pressure/Temperature Limits



- ① Suitable subject to chemical compatibility.
- ② Suitable in some cases but check your application requirements with Flexitallic.
- ③ Contact the Technical Team for applications with higher temperatures and pressures. Applicable to 1.5mm and below.

The operating temperature of non-asbestos sheet material is related to the thickness of materials selected. Thinner materials give better temperature and pressure properties.

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