

## Data / Specification Sheet • Novus Uniflon 53

**Novus Uniflon 53** is a high performance biaxially orientated PTFE sheet material with a barium sulphate filler.



### Service

Novus Uniflon 53 is a general purpose grade for sealing applications across the whole pH range. It is suitable for use with hydrofluoric acid, but not pure liquid hydrogen fluoride. It can also be used with alkalis, solvents, fuels, water, steam and chlorine.

### Temperature / Pressure

Maximum recommended service temperature 260°C.

Maximum recommended operating pressure 85 bar (1235psi).

The maximum temperature and pressure cannot necessarily be used simultaneously.

### Approvals / Compliance

Conforms with FDA21 CFR 177.1550 regulations.

### Availability

Thickness range:  
0.75mm to 3.0mm

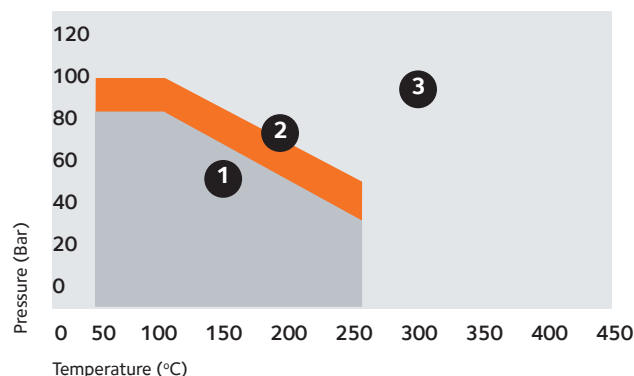
Standard sheet sizes:

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>          |             | 3.0g/cc     |
| <b>Tensile Strength</b> | ASTM F152   | 14MPa       |
| <b>Compression</b>      | ASTM F36    | 5%          |
| <b>Recovery</b>         | ASTM F36    | 40% min     |
| <b>Residual Stress</b>  | DIN @ 175°C | 30MPa       |
| <b>Creep Relaxation</b> | ASTM F38    | 21%         |
| <b>Gas Permeability</b> | DIN 3535    | <0.01cc/min |
| <b>Liquid Leakage</b>   | ASTM F37    | 0.22ml/hr   |

### Novus Uniflon 53 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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