

PRODUCT DATASHEET

SIGMA® 600



SIGMA® 600 is a high performance biaxially orientated PTFE sheet sealing material with enhanced, low stress sealing characteristics.

SIGMA

This Data Sheet refers to the material as supplied. The information contained herein is given in good faith, but no liability will be accepted by the Company in relation to same.

We reserve the right to change the details given on this Data Sheet as additional information is acquired. Customers requiring the latest version of this Data Sheet should contact our Applications Engineering Department.

The information given and, in particular, any parameters, should be used for guidance purposes only. The Company does not give any warranty that the product will be suitable for the use intended by the customer.

Health & Safety

For further Health and Safety information please see the relevant Material Safety Datasheets or contact Flexitallic Ltd.

Service:

SIGMA® 600 is capable of creating a seal at very low stresses. This makes the product suitable not just for use in standard metallic flanged connections but also in load compromised bolted connections; such as those applications involving glass lined, plastic flanges and thin or distorted metal flanges.

Suitable for sealing most chemicals across the whole pH range (0-14) with the exception of molten alkali metals and fluorine gas. Consisting entirely of PTFE, SIGMA® 600 is suitable for use with practically all chemical media.

Recommended temperature range:
- 250°C to 260°C

Recommended pressure range:
Vacuum to 85 bar (1230 psi)

Note:

These temperature and pressure guides cannot necessarily be used simultaneously and may not apply at all thicknesses.

Complies with the requirements of FDA regulations.

WRAS approval 1206528

TA-LUFT approved

Do NOT use gasket pastes.

Availability:

Sheet size:
1.5m x 1.5m

Thickness range:
1mm to 6.4mm

Colour: White (Pigment free)

Typical Physical Properties:

Thickness	1.5mm	3.0mm	6.4mm
Density	0.75g/cm ³	0.75g/cm ³	0.75g/cm ³
ASTM F36A Compressibility	68%	60%	31%
ASTM F36A Recovery	5%	10%	22%
ASTM F152 Tensile Strength	6.7MPa	6.7MPa	6.7MPa
DIN 52913 Residual Stress @ 175°C	34MPa	19MPa	16MPa
DIN 3535-6 Gas Permeability	0.01mL/min	0.01mL/min	0.02mL/min
ASTM F34A Liquid Leakage	1.2mL/hr	1.2mL/hr	1.2mL/hr
1000 psi gasket stress, 50 psi Fuel A			