



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

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 and food products.

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: 1.0mm 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			

Waranty exclusion

In view of the variety of different installation and operation conditions as well as application and process engineering options, the information given in this datasheet can only provide approximate guidance and cannot be used as basis for warranty claims.