



SIGMA® 588 is a high performance biaxially oriented PTFE sheet sealing material with enhanced handling & low stress sealing characteristics.

Service

SIGMA® 588 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.

Sigma® 588 comprises of soft microcellular PTFE faces sintered onto a rigid pure PTFE core therefore enhancing handling and installation of large or complex gaskets. 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® 588 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: 1.5mm to 6.4mm
Colour: White (Pigment free)

Typical Physical Properties

Thickness	1.5mm
Density	1.1g/cm ³
ASTM F36A Compressibility	55%
ASTM F36A Recovery	24%
ASTM F152 Tensile Strength	10MPa
DIN 52913 Residual Stress @ 175°C	28MPa
DIN 3535-6 Gas Permeability	0.01mL/min
ASTM F37A Liquid Leakage	1.5mL/hr
1000 psi gasket stress, 50 psi Fuel A	

Waranty exclusion

In view of the variety of different installation and operation conditions and 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.