

Technical Data Sheet

MATERIAL PROPERTIES*: SIGMA® 588

High performance biaxially orientated sheet sealing material containing PTFE 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.

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 Approved for use with potable water: Approval No. 1206528

TA-LUFT approved

Tested in accordance to EC Regulation No. 10/2011*

**being the specific testing requirements of EN Regulation 1935/2004*

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	1.1gcm-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		
ASTM F38B Creep Relaxation	33%	51%

Notes: * This is a general guide and should not be the sole means of selecting or rejecting this material. This data sheet covers basic information, for more comprehensive information, please contact us.



Asbestos Free



Certificate Number: 14352
ISO 9001



Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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