

## Technical Data Sheet

**MATERIAL PROPERTIES\*:** SIGMA® 511

*High performance biaxially orientated sheet sealing material containing PTFE with a silica filler.*

**Service:**

SIGMA® 511 is suitable for sealing most chemicals across the whole pH range (0-14) with the exception of molten alkali metals, fluorine gas, hydrogen fluoride or materials which may generate these.

Sigma® 511 is particularly suitable for use in applications involving strong acids.

**Recommended temperature range: Recommended pressure range:**

- 250°C to 260°C

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,

BAM Oxygen,

DVGW DIN 3533-6 tested. 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, 2.0m x 2.0m, For gaskets above sheet size welded gaskets are available.

Thickness range: 0.75mm to 3.2mm, Other thicknesses may be available on request.

**Colour:** Pink

**Typical Physical Properties:**

Thickness	1.5mm	3.0mm
Density	2.2gcm-3	2.2gcm-3
ASTM F36A Compressibility	7%	7%
ASTM F36A Recovery	44%	45%
ASTM F152 Tensile Strength	16MPa	15MPa
DIN 52913 Residual Stress @ 175°C	30MPa	20MPa
DIN 3535-6 Gas Permeability	< 0.1mL/min	< 0.1mL/min
ASTM F37A Liquid Leakage	4mL/hr	4mL/hr
1000 psi gasket stress, 50 psi Fuel A		
ASTM F38B Creep Relaxation	35%	53%

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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