

Sigma 511

Description

Sigma 511 is a high performance biaxially orientated sheet sealing material containing PTFE with silica filler.

Colour

Pink

Service

- Suitable for sealing all 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
- Maximum recommended temperature: 260°C
- Maximum recommended pressure: 85 bar, 1235 psi
- 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. 030511
- Do not use gasket pastes.

Typical Physical properties

| | | | | | |
|------------------------------------|-------------------|------|------|------|------|
| Thickness | mm | 0.8 | 1.5 | 2.0 | 3.0 |
| Density | gcm ⁻³ | 2.2 | 2.2 | 2.2 | 2.2 |
| ASTM Compressibility | % | 10 | 7 | 8 | 7 |
| ASTM Recovery | % | 44 | 44 | 42 | 45 |
| ASTM Tensile Strength | MPa | 15 | 16 | 16 | 15 |
| DIN Residual Stress @ 175°C | MPa | 42 | 30 | 25 | 20 |
| DIN Gas Permeability | mL/min | <0.1 | <0.1 | <0.1 | <0.1 |
| ASTM Liquid Leakage; Fuel A 50 psi | mL/hr | 3 | 4 | 4 | 3 |
| ASTM Creep Relaxation | % | 24 | 35 | 43 | 53 |

Availability

- Sheet size: 2000 x 2000 mm. For larger sizes, welded gaskets are available.
- Thickness range: 0.75 mm up to 3.2 mm. Other thicknesses may be available on request.