

Leader Clipperlon 2100

Modified PTFE Gaskets

DESCRIPTION

Modified PTFE sheet manufactured with biaxially oriented longer molecule chains specially designed for high-demanding applications. Due to this specific material structure and special manufacturing process a low creep properties are achieved. Fawn in color and produced with modified PTFE and Solid Silica Beads as a filler.

APPLICATION

A general-purpose gasket material for sealing applications across the whole pH range, reduced creep, and good sealability at low stress.

CHEMICAL COMPATIBILITY

Particularly suitable for use with strong acids (except with hydrofluoric acid, alkalis and elemental fluorine). Other applications include solvents, fuels, water, steam, and chlorine. A chemical resistance list is available upon request. Pressure up to 1200 psi. Temperature from -450 °F up to 500 °F.

AVAILABLE OPTIONS

Flange gaskets and sheets are available in thickness of 1/32", 1/16", and 1/8". Other thicknesses available upon request. Standard gaskets can be supplied in accordance with ASMEB 16.21, EN12560-1, as well as EN1514-1. Non-standard or special gaskets can be manufactured according to customer drawings or by given sizes.

APPROVALS & CERTIFICATES

- FDA 21 CFR 177.1550
- TA-Luft
- EC1935 (10/2011)

SEALING CHARACTERISTICS

- Significant reduced creep
- Low leak rate
- Good electrical insulation properties
- Outstanding chemical resistance
- Non-aging
- Excellent sealability

TECHNICAL DATA	
Maximum Temperature	500
Maximum Pressure [PSI]	1200
Density [g/cm ³]	2.2
Leakage Specific Leak Rate [DIN 28090-2] [mg/(s*m)]	0.01
Minimum Initial Stress [DIN E 2505 part 2] [N/mm ²]	20
Maximum Initial Stress [DIN E 2505 part 2] [N/mm ²]	160
M-Value	3.5
Y- Value [psi]	2450
ASTM F36 Recovery [% min]	40
Gasket Required Flange Roughness [Ra micron]	3.2-6.3
Gasket Required Flange Roughness [RMS]	125-250
Max Seating Stress [Qsmax bei RT EN13555] [n/mm ²]	120
Tensile Strength (quer) DIN 52910 [N/mm]	>=(13) 1885

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TECHNICAL DATA	
Advice Seating Stress at Assembly [psi]	5000
ROTT [Gb]	495
ROTT [a]	0.301
ROTT [Gs]	5.87
Compressibility, [ASTM F36], [%]	7-10
ASTM F37 Sealability [ml/min] Sg=1000 psi=30	0.21
ASTM F38 Creep Relaxation [%]	15
ASTM F152 Average Tensile [psi]	2000