

Leader Clipperlon 2110

Modified PTFE Gaskets

DESCRIPTION

Modified PTFE gasket material manufactured with biaxially oriented chains to obtain a tight seal for demanding applications. This material has a high compressibility characteristic and low minimum seating stress value. Therefore, this material is highly recommended for low torque applications, plastic pipe systems, and flanges, as well as glass and ceramic lined equipment. Blue in color and produced with modified PTFE and hollow glass microspheres as a filler.

APPLICATION

Specially designed for use in low bolt-loaded constructions for sealing applications across the whole pH range: Therefore extremely suitable for glass, ceramics, and plastic-lined or distorted flanges and even flanges with light surface irregularities.

CHEMICAL COMPATIBILITY

Particularly for use with strong acids (except hydrofluoric acid) and alkalis. Other applications include solvents, fuels, water, and oil. A chemical resistance list is available upon request. Pressure up to 800 psi Temperature from -410 °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 ASME B16.21, 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 for low-torque applications

TECHNICAL DATA	
Maximum Temperature [°F]	500
Maximum Pressure [PSI]	800
Density [g/cm ³]	1.7
Leakage Specific Leak Rate [DIN 28090-2] [mg/(s*m)]	0.02
Minimum Initial Stress [DIN E 2505 part 2] [N/mm ²]	10
Maximum Initial Stress [DIN E 2505 part 2] [N/mm ²]	150
M-Value	3
Y- Value [psi]	1600
ASTM F36 Recovery [% min]	30
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]	100
Tensile Strength (quer) DIN 52910 [N/mm]	>=(13) 1885

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TECHNICAL DATA	
Advice Seating Stress at Assembly [psi]	5000
ROTT [Gb]	458
ROTT [a]	0.3
ROTT [Gs]	5.37
Compressibility, [ASTM F36], [%]	30-40
ASTM F37 Sealability [ml/min] Sg=1000 psi=30	0.23
ASTM F38 Creep Relaxation [%]	27
ASTM F152 Average Tensile [psi]	2000