

Leader Clipperlon 2120

Modified PTFE Gaskets



DESCRIPTION

Modified PTFE gasket material containing biaxial orientated chains to obtain a tight seal for demanding applications. Clipperlon 2120 is a very dense material with low compressibility, high recovery and low creep properties. Off-white in color and produced with Modified PTFE and barium sulfate filler. Clipperlon 2120 particularly suitable for use with hydrofluoric acid and chlorine applications and a wide variety of different media across the whole pH-range. Due to the high density this material is highly recommended for applications with monomers to avoid the 'popcorning' effect. This effect will be result when the monomer enters the micro-voids of the PTFE.

APPLICATION

Particularly suitable for use with hydrofluoric acid and a wide variety of different media across the whole pH-range. Applications can be found in chemical, pharmaceutical, food and beverage and general industry. Due to the high density this material is highly recommended for applications with monomers to avoid the 'popcorning' effect. This effect

will be result when the monomer enters the micro-voids of the PTFE.

CHEMICAL COMPATIBILITY

Particularly suitable for use with hydrofluoric acid, but not pure hydrogen fluoride. Best for use with strong alkalis, solvents, fuels, water, steam and chlorine. Other applications include solvents, fuels, water, oil, chlorine and caustics. A chemical resistance list is available upon request. Pressure up to 1200 psi. Temperature from -450 F up to 500 F.

DELIVERY OPTIONS

Flange gaskets and sheets are available in thickness of 1/32", 1/16", 1/8", 0,5mm, 1mm, 1,5mm, 2mm and 3mm. Other thicknesses available on 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 or Edrawing.

TEMPERATURE

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APPROVALS & CERTIFICATES

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

- significant reduced creep (non-cold flow)
- low leak rate
- good electrical insulation properties
- outstanding chemical resistance
- Non-ageing
- excellent sealability

TECHNICAL DATA

max Temperature [°F]	500
max Pressure [psi]	1200
density [g/cm ³]	2.8

LOCATIONS

850 Sense Road LA PORTE, TX 77571, USA GLOBAL HEADQUARTERS

8622 South Choctaw Drive BATON ROUGE, LA, USA 70815

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TECHNICAL DATA

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]	150
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 [Q _{smax} bei RT EN13555] [n/mm ²]	100
Tensile Strength (quer) DIN 52910 [N/mm]	>= (13) 1885
Advice Seating stress at assembly [psi]	5000
ROTT [Gb]	432
ROTT [a]	0.318
ROTT [Gs]	0.964
compressability, [ASTM F36], [%]	4-8
ASTM F37 Sealability [ml/min] S _g =1000 psi=30	0.22
ASTM F38 Creep Relaxation [%]	12
ASTM F152 Average Tensile [psi]	2000

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