

# Leader Clipperlon 2115 usp

## Modified PTFE Gaskets



### DESCRIPTION

Modified PTFE gasket material manufactured with bi-axial orientated chains to obtain a tight seal for demanding applications. This material has a rather high compressibility characteristics 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. White in color and produced with Modified PTFE and hollow glass microspheres as a filler. Special developed for pharma applications.

### APPLICATION

Specially developed for high purity applications like pharmaceutical, Semicon, food and special beverage. Optimal in applications with low bolt loaded constructions for sealing applications across whole pH-range: Therefore extremely suitable for glass, ceramics, and plastic lined or distorted flanges and even flanges with light surface irregularities. The material is USP class VI plastics (USP 88) listed and meets Food & Dairy

requirements FDA 21 CFR. 177.1550 and EC 1935/10/2011.

### 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.

### 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

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 -450 °F up to 500 °F.

### APPROVALS & CERTIFICATES

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

### SEALING CHARACTERISTICS

- outstanding chemical resistance
- low leak rate
- good electrical insulation properties
- significant reduced creep
- Non-ageing
- Excellent sealability for low torque applications

## TECHNICAL DATA

max Temperature [°F]	500
max Pressure [psi]	800
density [g/cm <sup>3</sup> ]	1.7
Leakage Specific Leak Rate [DIN 28090-2] [mg/(s*m)]	0.02
M-Value	3
Y- Value [psi]	1600

### 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

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 <sup>2</sup> ]	100
Tensile Strength (quer) DIN 52910 [N/mm]	>= (13) 1885
Advice Seating stress at assembly [psi]	5000
ROTT [Gb]	458
ROTT [a]	0.3
ROTT [Gs]	5.37
compressability, [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

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