

Clipperlon 2110

Modified PTFE



Description

Modified PTFE is manufactured with bi-axial oriented longer molecule chains specially designed for demanding applications. This material requires a relatively high compression and a low minimum surface pressure.

This material is highly recommended for low-torque applications, plastic piping systems and flanges, as well as glass and ceramic-coated equipment.

Blue in color and produced with modified PTFE and hollow glass microspheres as filler.

Technical properties

- excellent seal with low surface pressure
- excellent chemical resistance
- significantly reduced creep
- low emission
- good electrical insulation properties
- does not age

Application

Specially designed for usage in low bolt-force constructions for sealing in entire pH-range: therefore extremely suitable for glass, ceramic and plastic coated or deformed

flanges and even slightly uneven flanges.

Applications can be found in the chemical, food and beverage sector, and in general industry.

Chemical resistance, pressure and temperature

Particularly suitable for use with strong acids (except hydrofluoric acid) and alkalines. Other applications include solvents, fuels, water, steam and chlorine. A chemical resistance list is available on request.

Pressure to max 40 bar

Temperature -210 °C to max +240 °C

Supply programme

- Sheets available with thickness 1 / 1,5 / 2 / 3 mm.
- Gaskets according to EN(DIN) en ASME norm are available from stock. Besides that it is possible to punch or cut virtually any shape or size from a sheet.

Approvals and certificates

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

Table 1: Technical data*

Gasket factor	Norm	Value	Unit
Min surface pressure σ_{vu}	DIN 28090	10	MPa
Max surface pressure σ_{vo}	DIN 29090	150	MPa
Minimum temperature		-210	°C
Maximum temperature		+240	°C
Compression	ASTM F 36 J	30-40	%
Recovery	ASTM F 36 J	30	%
Max applicable pressure*		55	bar
Density		1,7	g/cm ³
Specific leak-tightness	DIN 3535-6	≤0,02	mg/(s*m)
Residual surface pressure	DIN 52 913 150°C / 30 MPa	13	MPa
M		3	
Y		1600	PSI

* Depending on material and construction

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