



your partner in fluoropolymers



FLONSEAL expanded PTFE gasket sheet

FLONSEAL ePTFE is available in the following dimensions

Thickness (mm)	Size (mm)
0.5	1500 x 1500 2000 x 2000
1.0	1500 x 1500 2000 x 2000
1.5	1500 x 1500 2000 x 2000
2.0	1500 x 1500 2000 x 2000
3.0	1500 x 1500 2000 x 2000
4.0	1500 x 1500
5.0	1500 x 1500
6.0	1500 x 1500

Other sizes available on request

MATERIAL PROPERTIES

FLONSEAL ePTFE gasket sheet consists of virgin, expanded PTFE. The manufacturing process produces a multidirectional fibrous texture which gives the material its special properties. FLONSEAL ePTFE shows very low compression rates & exhibits very little increase in width even under extreme sealing conditions.

Because of its multidirectional fibrous texture FLONSEAL ePTFE gasket sheet shows very good material characteristics at high surface pressures and increasing temperatures. Even under extreme operating conditions there are very low changes in width and in height compared to other PTFE materials. By using gaskets made of FLONSEAL ePTFE sheet, high surface pressures will be maintained even at high temperatures.

FLONSEAL ePTFE gasket sheets are specifically designed to the highest safety standards and are well suited to applications such as critical joints in oxygen pipelines.

PRODUCT DATA

MATERIAL

- Virgin PTFE with expanded multidirectional fibrous texture.

CHEMICAL RESISTANCE

- pH 0 to 14 Resistant to all media with the exception of molten alkaline metals and elementary fluorine at $T > 150^{\circ}\text{C}$ and $p > 40$ bar.

TEMPERATURE RANGE

- -240°C to $+270^{\circ}\text{C}$, intermittent at $+315^{\circ}\text{C}$.

PHYSIOLOGICALLY HARMLESS

- At continuous temperatures up to $+260^{\circ}\text{C}$ in accordance with German BG No.21, requirements according to FDA 21 are met.

PRESSURE RANGE

- The pressure range depends on installation and working parameters.

SPECIFIC MATERIAL CHARACTERISTICS

- Values according to DIN 28090 / DIN 28091-T3: KSW = 23% ... WSW = 11% nominal density: 0,7g/cm³.

TYPICAL APPLICATIONS

GASKET FORMS

- Cut and punched gaskets together with sheets for in-situ cutting.

COMPONENTS

- Pipeline flanges, pump & stirring machine flanges etc ...

FLANGE MATERIALS

- FRP, enamel, glass, ceramic, graphite, aluminium, steel & rubber coated materials.

INSTALLATION

- Cut or punch FLONSEAL ePTFE gasket sheets.
- Sealing surfaces must be clean.
- For partial underfilling of uneven surfaces FLONSEAL ePTFE -HD can be used.
- Always tighten bolts evenly in stages up to the required surface pressure.
- Retighten bolts after reaching operating conditions (recommended surface pressure: BU=20 N/mm²).

The data listed falls within the normal range of product properties but they should not be used to establish specification limits nor used alone as the basis of design. Polyflon Technology Limited assumes no obligation or liability for any advice furnished by it or for results obtained with respect to these products. All such advice is provided gratis and the buyer assumes sole responsibility for the results obtained in reliance thereon.