



PTFE JOINTING SHEET PLANIFLON™ E12

Composition

- 100% pure expanded PTFE

Characteristics

Planiflon™ E12 gasket sheets are made of 100% pure multidirectional expanded PTFE, providing exceptional and virtually unlimited chemical resistance. Once installed, gaskets produced from Planiflon™ E12 sheets adapt optimally to the roughness and surface of the flange. During operation, even under high pressure and temperature loads, they maintain high elasticity and moderate creep, ensuring excellent stability and optimal sealing performance, especially in demanding applications with steel flanges and high burst safety. The good resilience of the material offers increased operational safety even under variable operating conditions.

Applications

Planiflon™ E12 is suitable for industrial applications to obtain PTFE gaskets for general and specific uses. It has the following certifications:

- FDA
- TA LUFT

Tech Data

Planiflon™ E12
(EN 13555 thk 3 mm)

Colour		White
Filler		absent
Density		g/cm ³ 0.90 +/- 10%
Temperature		°C -200/+260
Max operating pressure		bar Vacuum to 40
P x T max		bar x °C
thickness 0.5 to 2.0		5000
thickness 3.0		3500
Q min (40 bar He; 0,01 mg/(s*m))		MPa 27
Q Smin (QA=30 MPa; 40 bar He; L=0,01)		MPa <10
Qsmax (23°C)		MPa 160
Leckagerate (QA=30 MPa; 1 bar He)		mg/(s*m) <1*10-4
PQR @ 20 °C (QA=30 MPa)		0.94
Compressibility	ASTM F36	50 - 55%
Recovery	ASTM F36	13
PH Range		0 ÷ 14

- Never use the product at its maximum rated temperature and pressure. Consult the manufacturer for further information.
- The peak temperature can be sustained only for short exposure periods.
- Other gasketing sheet dimensions and thicknesses are available on request.
- The dimensional tolerances of the gasketing sheets are: W and L ±3.0%, H ±10.0%.

Size	1.500 x 1.500	60" x 60"
Thickness	0,75 ÷ 6,00 mm	1/32" ÷ 1/4"



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The bidirectional structured PTFE gasketing sheets Planiflon™ are made with special resins and inorganic fillers. The special processing technique minimizes the material's cold flow, giving to the sheets the characteristic attribute of bidirectionality. The product range of the Planiflon™ includes the following products:

- **B13** - Modified PTFE with silica filler
- **B14** - Modified PTFE with hollow glass microspheres filler
- **B15** - Modified PTFE with barium sulphate filler
- **B58** - Microcellular Modified PTFE layers with pure modified PTFE core
- **B60** - Microcellular Modified PTFE with Inorganic fillers
- **E12** - Bi-directional expanded PTFE



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