



PTFE JOINTING SHEET PLANIFLON™ E12

Composition

- 100% pure expanded PTFE

Characteristics

Planiflon™ E12 gasketing sheets consist of 100% pure, multidirectional expanded PTFE, with practical unrestricted chemical resistance.

When installed the seals made of Planiflon™ E12 plates have an exceptionally good adaptability to flange roughness and unevenness.

In operation, under pressure and temperature loads, high surface pressure is guaranteed. Thereby achieved it has very good stability and tightness, especially in demanding steel flange applications high blow-out security. The good resilience of the material leads to increased operational safety even under changing 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

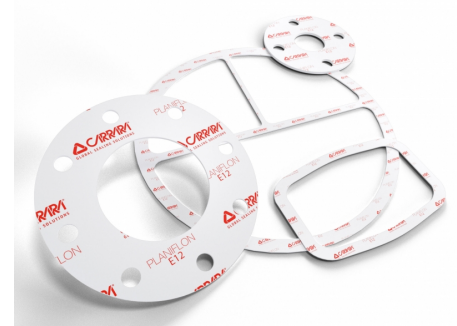
Tech Data

Planiflon™ E12
(EN 13555 thk 3 mm)

Colour			White
Filler			absent
Density		g/cm³	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 to the maximum temperature and pressure associated. Consult the manufacturer for further information
- The peak temperature can be sustained for short exposures
- 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
- **B01** - Virgin PTFE
- **B02** - Glass filled PTFE
- **B03** - Graphite filled PTFE



The information in this publication, as well as any additional information provided to users, is based on experience and is shared to the best of our current knowledge. However, due to numerous factors beyond our knowledge and control that may affect the use of these products, no warranties are provided or implied regarding this information. The operating limits presented in this publication do not imply that these values can be applied simultaneously. Do not use the product at the maximum temperature and pressure values simultaneously. The maximum temperature is suitable only for short-term exposure under specific conditions. Specifications are subject to change without prior notice. The picture in the DS may not accurately depict the exact color and/or markings of the product.



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