



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)

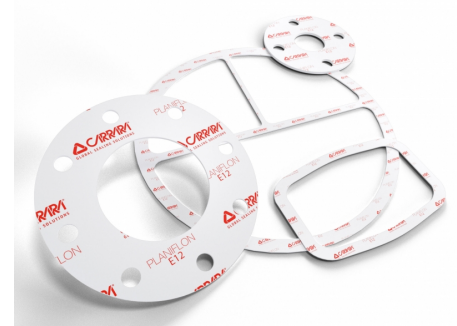
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|---------------------------------------|----------|----------|--------------|
| Colour | | | White |
| Filler | | | absent |
| Density | | g/cm³ | 0.90 +/- 10% |
| Temperature | | °C | -200/+260 |
| Max operating pressure | | bar | Vacuum to 40 |
| 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 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 $\pm 3.0\%$, H $\pm 10.0\%$.

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



The information provided in this publication, as well as that supplied to users in other forms, is based on our experience and communicated according to the best knowledge available. However, since numerous factors beyond our knowledge and control may influence the use of the products, no warranty, explicit or implicit, is given regarding such content. The operating limits indicated do not constitute confirmation that these values can be applied simultaneously. Avoid using the product at the maximum temperature and pressure limits. The maximum temperature is sustainable only for short periods under specific conditions. Specifications may be changed without notice. The images in the DS may not accurately represent the product's color and/or marking.



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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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