



# PTFE JOINTING SHEET PLANIFLON™ B05

## Composition

- PTFE
- Carbographe filler

## Characteristics

Planiflon™ B05 PTFE gasketing sheets are suitable for all applications where a PTFE gasket with better mechanical performance is required. B05 PTFE gasket sheets, rod and tubes exhibit high chemical resistance except for fluids for which the filler is incompatible.

## Applications

Planiflon™ B05 is suitable for industrial applications, it is available in sheets, bars and tubes to obtain PTFE materials for general and specific uses.

## Tech Data

| Planiflon™ B05                                |                    |                 |             |
|---|--------------------|-----------------|-------------|
| Colour  |                    |                 | Black       |
| Filler  |                    |                 | Carbographe |
| Gravity                                       | ASTM D792          | g/cm3           | 1.90 - 2.15 |
| Coefficient of linear thermal expansion       | ASTM D696          | 10-5 (mm/mm)/°C | 6.5 - 10    |
| Hardness Shore D                              | ASTM D2240         | Punti           | ≥ 65        |
| Tensile strength                              | ISO 527 v=50mm/min | N/mm2           | ≥ 8         |
| Elongation at break                           | ISO 527 v=50mm/min | %               | ≥ 40        |
| Compressive strength at 1% strain             | ASTM D695          | N/mm2           | 12 - 13.5   |
| Deformation under load (24 h 13.7 N/mm2 23°C) | ASTM D621          | %               | ≤ 6         |
| Permanent deformation                         | ASTM D621          | %               | ≤ 1.5       |
| Coefficient of dynamic friction               | ASTM D1894         | -               | 0.12        |
| Wear factor at PV 100                         | ASTM D3702         | -               | 20 - 30     |

- 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

|           |   |                                   |
|-----------|---|-----------------------------------|
| Size      | 1.500 x 1.500 - 1200 X 1200 - 600 x 600 | 60" x 60" - 48" x 48" - 24" x 24" |
| Thickness | 0,75 ÷ 6,00                             | 1/32" ÷ 1/4"                      |



## PTFE Jointing Sheet Planiflon™ B05

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
- **B05** - Carbographe filled PTFE



The information in this publication and otherwise provided to users is based on experience and is provided to the best of our current knowledge. Due to many factors which are beyond our knowledge and control affecting the use of the products, no warranties are given or are to be held implied with respect to such information. The operating limits shown in this publication do not constitute a statement that these values can be applied simultaneously. Do not use the product at the associated maximum temperature and pressure values. The maximum temperature can be sustained for short exposures in particular conditions. Specifications are subject to change without notice.

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