



# 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

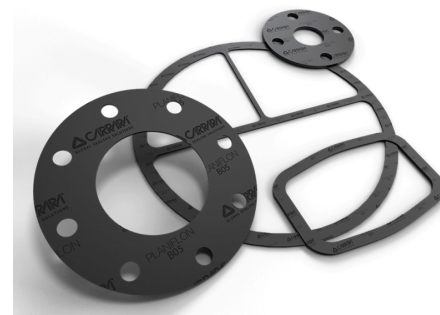
Planiflon™ B05 is suitable for industrial applications, it is available in sheets, bars and tubes to obtain PTFE materials for general and specific uses.

## 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 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 - 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 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.



**Carrara S.p.A.**,  
Via Provinciale 1/E - 25030 Adro - BS - Italia  
tel. +39 030 7451121 [www.carrara.it](http://www.carrara.it) - [info@carrara.it](mailto:info@carrara.it)