



# COMPRESSED FIBER GASKETS PLANIFLEX™ PF81

## Composition

Aramid fibres, inert filler, graphite and NBR binder.

## Characteristics

The compressed fiber gaskets Planiflex™ PF81 are a material with an excellent sealing performance, usable with oils, gas, fuel and inorganic acids. Planiflex™ PF81 shows excellent stress retention properties and excellent sealing performance.

## Applications

Planiflex™ PF81 can be applied in the temperature range -40°C÷250°C and in the pressure ranges up to ratings 600 lbs and PN40. These gaskets show chemical compatibility in the pH range typical of that of nitrile rubbers.

## Tech Data

| Properties thickness 1,5 mm                 | Unit  | Value |
|---|-------|-------|
| Binder                                      | --    | NBR   |
| Compressibility ASTM F 36                   | %     | 11    |
| Recovery ASTM F 36                          | %     | 50    |
| Tensile strength DIN 52910                  | N/mm2 | 8     |
| Density +/- 5%                              | g/cm3 | 1,9   |
| <b>Stress resistance DIN 52913</b>          |       |       |
| 16 h, 300 °C, 50 N/mm2                      | N/mm2 | 22    |
| 16 h, 175 °C, 50 N/mm2                      | N/mm2 | 28    |
| <b>Thickness increase acc.to ASTM F 146</b> |       |       |
| Oil IRM 903, 5 h, 150 °C                    | %     | 5     |
| ASTM Fuel B, 5 h, 23 °C                     | %     | 5     |
| Distilled water. 5h. 100°C                  | %     | 2     |
| <b>Max. operating conditions</b>            |       |       |
| Peak temperature                            | °C    | 350   |
| Continuous temperature                      | °C    | 250   |
| Continuous temperature with steam           | °C    | 220   |
| Pressure                                    | bar   | 100   |

- The peak temperature can be sustained for short exposures
- Do not use the product at maximum temperature values or under pressures higher than those typical of flue gases. Consult the manufacturer for further information.
- The dimensional tolerances of the gasketing sheets are: W and L  $\pm 3,0\%$ , H  $\pm 10,0\%$

|           |                                |                         |
|-----------|--------------------------------|-------------------------|
| Size      | 1.500 x 1.500<br>1.500 x 3.000 | 60" x 60"<br>60" x 120" |
| Thickness | 0.4 ÷ 5.0                      | 1/64" ÷ 3/16"           |



## Compressed fiber gaskets Planiflex™ PF81

The Planiflex™ gasketing sheets are made with materials based on aramid fibers and NBR specially selected for meet high performance standards for a wide range of industrial applications. Planiflex™ gaskets are applicable for seal with vapors, lubricants, solvents, gases, steam and many diluted acids and alkalis and can be used as a gasket together with PTFE envelopes.



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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