



# COMPRESSED FIBER GASKETS PLANIFLEX™ PF81R

## Composition

Aramid fibres, graphite and NBR binder wire reinforced.

## Characteristics

The compressed fiber gaskets Planiflex™ PF81R are a material with an excellent sealing performance, usable with oils, gas, fuel and inorganic acids. Planiflex™ PF81R shows excellent stress retention properties and excellent sealing performance.

## Applications

Planiflex™ PF81R can be applied continuously 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 | 15    |
| Density +/- 5%                              | g/cm3 | 2,3   |
| <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 IIR 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   |

- 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.
- 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"x60"<br>60"x120" |
| Thickness | 0.8 ÷ 5.0                      | 1/32" ÷ 7/32"       |



## Compressed fiber gaskets Planiflex™ PF81R

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.



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