

**PTFE-based gasket sheet  
GUAFLON PINK-SEAL**

TECHNICAL SHEET

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Premium-grade gasket sheet composed of modified PTFE reinforced with a high-strength thermally resistant particulate filler. The special manufacturing process results in excellent mechanical and sealing properties, which are isotropic in the gasket plane. The product is designed to provide superior torque retention and tightness effectiveness, even at high temperature service.

PINK-SEAL complies with DIN 28091-3 (technical delivery conditions for PTFE-based gasket sheets) code TF-M-O.

**Applications:**

Tailored for use with aggressive media in the chemical, petrol-chemical, pharmaceutical, paper and food industry; in presence of hazardous media, and whenever fugitive emissions control is required, even when thermal cycles and shocks occur. Suitable for sealing of all chemicals, with the exclusion of molten alkali metals, fluorine gas, hydrogen fluoride, and materials that may generate these.

**Technical Data** (typical test values relating to 2 mm thickness sheets)

|   |  |             |                   |                   |
|---|--|-------------|-------------------|-------------------|
| Density   | ASTM D 792                               | 2,2         | g/cm <sup>3</sup> |                   |
| Service limits (recommended)*:  | Continuous service temperature range     | -200 ÷ +260 | °C                |                   |
|   | Max. service pressure                    | 85          | bar               |                   |
|   | Chemical application range               | 0 ÷ 14      | pH                |                   |
| Compressibility   | ASTM F 36                                | 7 ÷ 15      | %                 |                   |
| Recovery  | ASTM F 36                                | 55          | %                 |                   |
| Compression modulus at room temp.   | $\epsilon_{KSW}$ (20 Mpa)                | DIN 28090   | 4                 | %                 |
| Recovery at room temp.  | $\epsilon_{KRW}$ (20 Mpa)                | DIN 28090   | 2                 | %                 |
| Compression modulus at high temp.   | $\epsilon_{WSW}$ (20 Mpa, 160°C, 16 hrs) | DIN 28090   | 11                | %                 |
| Recovery at high temp.  | $\epsilon_{WRW}$ (20 Mpa, 160°C, 16 hrs) | DIN 28090   | 3                 | %                 |
| Recovery at high temp.  | R (20 Mpa, 160°C, 16 hrs)                | DIN 28090   | 0,07              | mm                |
| Leakage rate (N <sub>2</sub> , 40 bar, 30 MPa)  | DIN 28090                                | < 0,01      | mg/s m            |                   |
| Compression Strength $\sigma_{VO}$ Room Temp.:  | DIN 28090                                | > 240       | N/mm <sup>2</sup> |                   |
| " " $\sigma_{BO}$ at 100°C:   | "  | 100         | N/mm <sup>2</sup> |                   |
| " " $\sigma_{BO}$ at 200°C:   | "  | 80          | N/mm <sup>2</sup> |                   |
| Gasket factors: Min. gasket assembly stress   | $\sigma_{VU/0,1}$                        | DIN 28090   | 15                | N/mm <sup>2</sup> |
| Maintenance factor  | $m_{0,1}$                                |             | 2                 |                   |
| Gasket factors according to PVRC ROTT test - future standard procedure for ASTM / ASME code |  |             |                   |                   |
| <i>thickness: 1,5 mm:</i>   | Gb:                                      | 10,3        | N/mm <sup>2</sup> |                   |
|   | a:                                       | 0,227       |                   |                   |
|   | Gs:                                      | 0,0069      | N/mm <sup>2</sup> |                   |

\* Service limits are indicated for proper assembly conditions and gasket design. Max. temperature and max. pressure must not occur simultaneously.

**Supply data:**

Color: pink  
 Standard sheet size: 1500 x 1500 mm  
 Standard thickness: from 1 - 1,5 - 2 - 3 mm other thicknesses available upon request  
 Tolerances according to DIN 28091: thickness  $\pm 10\%$ , sizes: 0 +15 mm

GUAFLON® sheets are available also with insertion of tanged perforated stainless steel sheet

GUAFLON® jointing manufacture is quality assured in accordance with ISO 9001

Data here reported, corresponding to laboratory and field tests typical results, are meant as non-binding guideline for gasket selection. No guarantee claim can be inferred from these data. When needed, we shall be pleased to assist you with specific technical support.