

PTFE-based gasket sheet

GUAFLON PINK-SEAL

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

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

Applications:

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

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

Density		ASTM D 792	2,2	g/cm ³
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.	ϵ_{XSW} (20 Mpa)	DIN 28090	10	%
% Creep relaxation at room temp.	ϵ_{KRW} (20 Mpa)	DIN 28090	3	%
Compression modulus at high temp.	ϵ_{WSW} (20 Mpa, 160°C, 16 hrs)	DIN 28090	9	%
% Creep relaxation at high temp.	ϵ_{WRW} (20 Mpa, 160°C, 16 hrs)	DIN 28090	4	%
Recovery at high temp.	R (20 Mpa, 160°C, 16 hrs)	DIN 28090	0,07	mm
Leakage rate (N ₂ , 40 bar, 30 MPa)		DIN 28090	< 0,01	mg/s
Compression Strength	σ_{VO} Room Temp.:	DIN 28090	> 240	N/mm ²
"	" σ_{BO} at 100°C:	"	100	N/mm ²
"	" σ_{BO} at 200°C:	"	80	N/mm ²
Gasket factors:	Min. gasket assembly stress $\sigma_{VU/0,1}$	DIN 28090	15	N/mm ²
	Maintenance factor $m_{0,1}$		2	
Gasket factors according to PVRC ROTT test - future standard procedure for ASTM / ASME code				
thickness: 1,5 mm:	Gb:	10,3	N/mm ²	
	a:	0,227		
	Gs:	0,0069	N/mm ²	

* 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.