

filled PTFE gasket sheet
GUAFLON BLUE-SEAL

TECHNICAL SHEET

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Gasket sheet composed of PTFE resin reinforced with special glass fibres. The formulation results in a product dimensionally stable under compression load, which does not exhibit the cold flow problems encountered with virgin PTFE, yet retaining its excellent resistance to aggressive chemicals, its "non-sticking" properties, its low electrical conductivity and its ease of cutting. BLUE-SEAL complies with technical delivery conditions for PTFE-based gasket sheets DIN 28091-3 TF-G-O.

Applications:

Designed for use in process piping and equipment in chemical, petrol-chemical, pharmaceutical, paper and food industry. Suitable for sealing of all chemicals, including strong acids and alkalis, with the exception of molten alkali metals, fluorine gas, hydrogen fluoride and materials that may generate these.

Technical Data (values relate to 2 mm thickness)

Density	ASTM D 792	2.25	g/cm ³
Service limits (recommended)*:			
Continuous service temperature range		-200 ÷ +210	°C
Max. service pressure		60	bar
Chemical application range		0 ÷ 14	pH
Compressibility	ASTM F 36	7 ÷ 15	%
Recovery	ASTM F 36	35	%
Creep relaxation (20 MPa, 100°C, 22 hrs)	ASTM F 38	50	%
Tensile Strength	ASTM F 152	17	N/mm ²
Elongation at break	ASTM F 152	300	%
Nitrogen permeability (30 N/mm ² , 40 bar)	DIN 3535/4	0,1	ml/min
Compression Strength σ_{VO} Room Temp.:	DIN 28090	220	N/mm ²
" " σ_{BO} at 100°C:	"	80	N/mm ²
" " σ_{BO} at 200°C:	"	50	N/mm ²
Thermal Conductivity	DIN 52612	0.4	W/mK
Costante dielettrica	ASTM D 150	2,1	
Resistività elettrica di volume	ASTM D 257	10 ¹⁷	Ohm/cm
Resistività elettrica di superficie	ASTM D 257	10 ¹⁵	Ohm

* Service limits are recommended for proper seating conditions and gasket design. Max. temperature and max. pressure must not occur simultaneously.

Supply data:

Color: blue
 Standard sheet size: 1,200 x 1,200 mm tolerance: ± 20 mm
 Standard thickness: from 0.5 to 3.0 mm tolerance: ± 10%
 Blue-Seal is available also with insertion of tanged perforated stainless steel sheet

Note: Guaflon jointing manufacture is quality assured in accordance with ISO 9001

Data here reported correspond to typical laboratory and field tests results. Gasket performance in specific applications, however, can be affected by factors that we cannot predict and for which we assume no liability.