



PRODURA® Sheet Gasketing

For a tight and reliable seal

PRODURA® Sheet Gasketing has been developed for a secure flange connection offering an enduring seal for pipeline and apparatus flange connections made of steel.

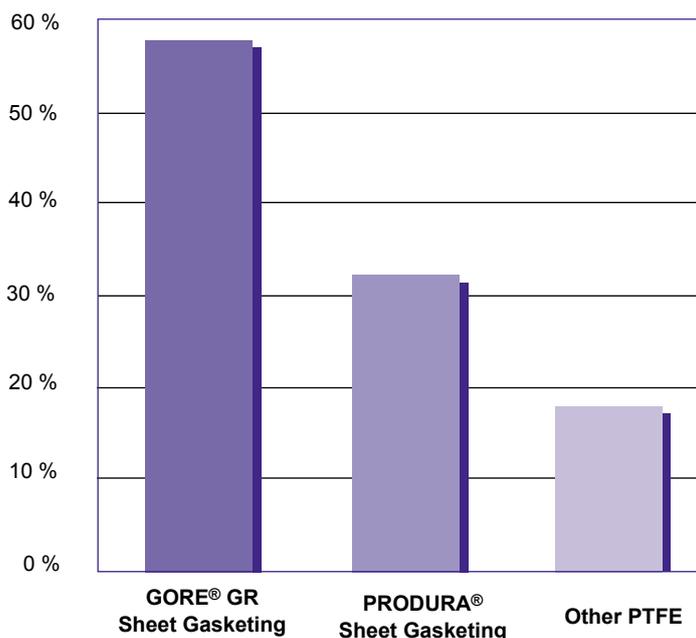
It consists of pure, high-quality expanded PTFE (ePTFE) that guarantees an almost unlimited chemical resistance of the seal.

The excellent conformability of the gasketing material effectively compensates for irregularities and scratches in the sealing surfaces.



ARLA Residual Stress

Ageing at 600 °F (315 °C) / 4 days



KEY FEATURES

- Multidirectionally oriented ePTFE
- Manufactured from 100% pure PTFE
- High chemical and thermal resistance
- Resistant to ageing
- Physiologically safe
- High strength

KEY BENEFITS

- High residual gasket stress
- Inherent strength against blow-out
- Wide operating range
- Reliably seals practically all media in the pH range 0 – 14
- Highly conformable to the sealing surface

TYPICAL APPLICATIONS

- Steel flanges
- Complex flange shapes

TESTS AND CERTIFICATES

- EN 13555
- DIN 28091-3
- TA-Luft ("high-quality seal"), VDI 2440,
- Blow-out resistance VDI 2200 (draft 06-2005)
- US standards: ARLA

EN 13555 PARAMETERS, Eg

1,6 mm thick DN40 PN40

Temperature (°C)	20	230
EG20MP [MPa]	274	479
EG30MP [MPa]	443	559
EG40MP [MPa]	664	538
EG50MP [MPa]	914	514
EG60MP [MPa]	1083	638
EG80MP [MPa]	1627	701
EG100MP [MPa]	1621	754
EG120MP [MPa]	1700	583
EG140MP [MPa]	1674	451
EG160MP [MPa]	1518	506

3,2 mm thick DN40 PN40

Temperature (°C)	20	230
EG20MP [MPa]	174	80
EG30MP [MPa]	281	369
EG40MP [MPa]	543	528
EG50MP [MPa]	815	478
EG60MP [MPa]	1061	718
EG80MP [MPa]	1255	654
EG100MP [MPa]	1573	967
EG120MP [MPa]	2254	
EG140MP [MPa]	2669	
EG160MP [MPa]	2443	

6,4 mm thick DN40 PN40

Temperature (°C)	20	230
EG20MP [MPa]	336	343
EG30MP [MPa]	570	440
EG40MP [MPa]	933	693
EG50MP [MPa]	1222	713
EG60MP [MPa]	1301	841
EG80MP [MPa]	1873	879
EG100MP [MPa]	2470	1292
EG120MP [MPa]	2634	
EG140MP [MPa]	2380	
EG160MP [MPa]	2953	

EN 13555 PARAMETERS, LEAKAGE

1,6 mm thick DN40 PN40 (Test medium He; Interior pressure 40 bar)

Leakage Class	L _{0.1}		L _{0.01}	
	Q _i [N/mm ²]	Q _{sm} [N/mm ²]	Q _i [N/mm ²]	Q _{sm} [N/mm ²]
20	15	<10	x	x
40	15	<10	23	<10
60	15	<10	23	<10

3,2 mm thick DN40 PN40 (Test medium He; Interior pressure 40 bar)

Leakage Class	L _{0.1}		L _{0.01}	
	Q _i [N/mm ²]	Q _{sm} [N/mm ²]	Q _i [N/mm ²]	Q _{sm} [N/mm ²]
20	17	<10	x	x
40	17	<10	26	<10
60	17	<10	26	<10

6,4 mm thick DN40 PN40 (Test medium He; Interior pressure 40 bar)

Leakage Class	L _{0.1}		L _{0.01}	
	Q _i [N/mm ²]	Q _{sm} [N/mm ²]	Q _i [N/mm ²]	Q _{sm} [N/mm ²]
20	x	x	x	x
40	23	<10	35	14
60	23	<10	35	<10

EN 13555 PARAMETERS, P_{QR}, Q_{Smax}

Type	P _{QR} Data (Rigidity 500 kN/mm)			Q _{Smax} [N/mm ²]	
	20 °C	150 °C	230 °C	20 °C	230 °C
PSG16, Thickness 1,6 mm	0,92	0,77	0,64	150	150
PSG32, Thickness 3,2 mm	0,89	0,58	0,46	150	100
PSG64, Thickness 6,4 mm	0,78	0,47	0,35	150	100

AVAILABLE SIZES

Type	Length x Width. [mm]	Thickness [mm]
PRODURA® Sheet Gasketing PSG10	1524 x 1524	1,0
PRODURA® Sheet Gasketing PSG16	1524 x 1524	1,6
PRODURA® Sheet Gasketing PSG20	1524 x 1524	2,0
PRODURA® Sheet Gasketing PSG32	1524 x 1524	3,2
PRODURA® Sheet Gasketing PSG64	1524 x 1524	6,4

TECHNICAL DATA

MATERIAL

100% expanded PTFE with multidirectionally oriented fibril structure.

RECOMMENDED OPERATING RANGE

- Vacuum up to 40 bar
- -240 °C to +230 °C

TEMPERATURE RANGE OF PTFE

-268 °C to +270 °C / -450 °F to 518 °F
Intermittent up to +315 °C / 599 °F

CHEMICAL RESISTANCE

Resistant to all media in the range of pH 0 – 14, except for molten or solute alkali metals and elementary fluorine, particularly at elevated temperatures and pressures.

AGEING RESISTANCE

The product is not susceptible to ageing in the permitted application range and can be stored indefinitely.

PHYSIOLOGICAL SAFETY

FOR INDUSTRIAL USE ONLY.

Not for use in food, drug, cosmetic or medical device manufacturing, processing or packaging operations.