



# Gasket Tape Series 1000

Datasheet

Easily and reliably seal glass-lined steel to contain aggressive media, protect equipment, and reduce emissions.

## TECHNICAL SPECIFICATIONS

- Material:** 100 % expanded polytetrafluoroethylene (ePTFE) with multidirectional strength.
- Operating Range:** The maximum applicable pressure and temperature depend mainly on the equipment and installation. Typical use: from -60 °C to 230 °C (-76 °F to 445 °F) ; industrial full vacuum<sup>1</sup> to 10 bar (145 psi).

Maximum use: -269 °C to 315 °C (-452 °F to 600 °F); full vacuum to 16 bar (230 psi) for flanges up to DN 2000/ASME 80".

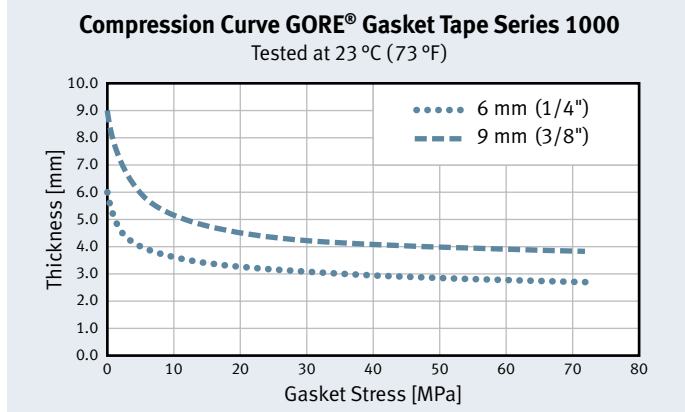
Be aware that flange surface irregularities may cause high peak loads. Please contact Gore if further guidance is required.

For applications outside the typical use range, Gore recommends an application specific engineering design calculation and extra care during installation.

- Chemical Resistance:** Chemical resistance to all media pH 0–14, except molten alkali metals and elemental fluorine.
- Shelf Life:** ePTFE is not subject to aging and can be stored indefinitely. To ensure optimal adhesive function, we recommend use within two years of date of purchase when stored under normal conditions.

	Thickness	
	6 mm (1/4")	9 mm (3/8")
<b>Sealability<sup>2</sup></b>		
Q <sub>min</sub> (0.1)	9 MPa (1,305 psi)	13 MPa (1,885 psi)
Q <sub>min</sub> (0.01)	14 MPa (2,030 psi)	18 MPa (2,610 psi)
Q <sub>smin</sub> up to L0.0001 and Q <sub>A</sub> > 5 MPa	5 MPa (725 psi)	5 MPa (725 psi)
m	5	5
y	9 MPa (1,305 psi)	13 MPa (1,885 psi)
<b>Conformability<sup>3</sup></b>		
Stress to seal 0.1 mg/(m·s) measured on test plattens with a groove <sup>3</sup>	9 MPa (1,305 psi)	13 MPa (1,885 psi)
Stress to seal 0.01 mg/(m·s) measured on test plattens with a groove <sup>3</sup>	14 MPa (2,030 psi)	18 MPa (2,610 psi)
<b>Creep relaxation<sup>4</sup></b>		
P <sub>QR</sub> , 150 °C (302 °F)	0.49	0.41
P <sub>QR</sub> , 230 °C (445 °F)	0.36	0.29
<b>Crush strength<sup>5</sup></b>		
Max. surface stress at 23 °C (73 °F)	70 MPa (10,150 psi)	70 MPa (10,150 psi)

- Absolute pressure of 1 mmHg (Torr) = 133 Pa = 1.33 mbar = 0.019 psi
- Based on EN 13555 leakage test protocol. DN200 PN10 plattens, 10 bar nitrogen, 30 mm wide tape.
- As 2) but with 0.5mm deep groove with sloped edges cut into the plattens.
- Based on EN 13555 creep relaxation test protocol (P<sub>QR</sub>). 2 x 250 mm x 55 mm strips, 500 kN/mm, 10 MPa starting stress.
- 2 x 250 mm x 55 mm strips, 500 kN/mm, 0.1 MPa/s load rate, 15 min hold time, no visible damage.



## PRODUCT SIZES

Choose tape width to be the same or wider than the width of the flange. Use 6 mm (1/4") tape thickness for deviations up to 1.5 mm (0.060"), respectively 9 mm (3/8") tape thickness for deviations up to 2.3 mm (0.090") without shimming. For greater deviations, consider shimming with GORE® Series 1000 shim tape. Further details are available in the installation instructions.

Width	Thickness	Length
40 mm (1.5")	6 mm (1/4")	5 m (16')
55 mm (2")	9 mm (3/8")	10 m (32')
65 mm (2.5")		15 m (49')

All combinations of width, thickness, and length are available. Manufactured to metric dimensions. Shim tape only available in above widths, 3 mm (1/8") thickness and 5 m (16') length.

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All technical information and advice given here is based on our previous experiences and/or test results. We give this information to the best of our knowledge, but assume no legal responsibility. Customers are asked to check the suitability and usability in the specific application, since the performance of the product can only be judged when all necessary operating data are available. Specifications are subject to change without notice. Gore's terms and conditions of sale apply to the purchase and sale of the product.

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Should you have any further questions about installation, or about our gaskets in general, contact your local GORE representative.

For detailed selection criteria, technical information, installation guideline and a complete listing of local sales offices please visit [gore.com/sealants](http://gore.com/sealants)

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