multiFlon®

FluorTex®
Polymer Technology

Multidirectionally expanded PTFE Tape

Multidirectional ePTFE Form-In-Place Gasket Tape



multiFlon® Tape Style HP is the new generation of multidirectionally expanded PTFE sealing tapes designed for use in metallic pipelines and equipment flanges.

The optimized fiber structure of this innovative material provides significantly improved creep resistance and lower compression set compared to previously used products.

multiFlon® Tape Style HP is single-sided self-adhesive, flexible, and compressible. Its excellent conformability allows the gasket to adapt perfectly to flange irregularities and surface roughness.

multiFlon® Tape Style HP is made of 100% pure multidirectionally expanded PTFE., offering optimal chemical resistance even in the most demanding applications.Through the use of the highest-quality raw materials and controlled manufacturing, this sealing tape is also available as GMP-compliant material.

Typical Applications

Components
large diameter flanges, mixers, stirrers, columns, pump and turbine housings, steel equipment with higher surface irregularities, vessels (for TRD401 vessels contact our technical service) as well as heat exchangers in all industries

Flanges
all types of flanges, large and complex geometries

Sealing Areas and Flange Materials
Steel, Aluminium, Inconel, other metal alloys, FRP, Glass

Teflon™ fluoroplastic · EC1935/2004 · FDA · BAM · REACH COMPLIANCE · TA Luft certified

Key Features

- chemically inert (for use in contact with pure alkali metals and elemental fluorine gas please contact our technical service)
- temperature resistant
- conformable and adaptable
- low compressive creep and dimensionally stable
- quickly and easily to install
- reliably tight and long-lasting
- conforms to TA Luft (according VDI 2440)
- Lowers inventory and installation costs

Approvals and Certificates

- TA Luft up to 230 °C (for steel and glass lined flanges)
- FDA 21 CFR 177.1550 (PTFE)
- EC1935 and relating regulations for extraction limits and GMP
- BAM for gaseous Oxygen
- EU 1907/2006 (REACH) with Annex XVII and it‘s amendment
- USP Class VI (not intended for implantation in the human body)

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Technical Data

Material	100 % pure, multidirectionally expanded PTFE (ePTFE)
Temperature Resistance of the Sealing Material	-240°C to +270°C, intermittent to +315°C
Chemical Resistance	Chemical resistance to all media pH 0 to 14, except molten alkali metals and elemental fluorine
Recommended Application Range	Vacuum up to 68 bar (1000 psig) depending on the installation parameters

Properties

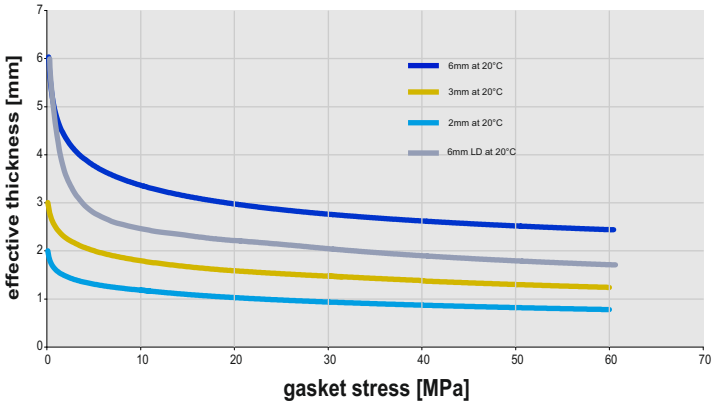
EN 13555 (2 mm Thickness)	
Qmin (40 bar He; 0,01 mg/(s*m))	25 MPa
*Q_{smin} (Q_A=30 MPa; 40 bar He; L=0,01)	< 10 Mpa
QSmax (23°C)	160 Mpa
Leakage Rate (QA=40 MPa; 40 bar He)	10-4 mg/(s*m)
PQR @ 20 °C (QA=30 MPa)	0,96

*Due to a series of practical tests it appeared that the minimum required gasket stress during operation is generallly lower than the minimal specified gasket stress according to EN 13555.
Therefor in practice we calculate with Q_{Smin} = 5 Mpa at controlled assembly.

ASTM F36	
Compressibility	50 %
compressed Thickness	1 mm
Recovery	15 %
recovered Thickness	1,15 mm

Gasket Characteristics

installed thickness multiFlon® Tape Style HP



Sizes and Spool Lengths

	Thickness [mm] / Spool Length [m]		
Width [mm]	**2 mm**	**3 mm**	**6 mm**
10	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
15	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
20	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
25	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
30	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25
35	10 / 20 / 25	10 / 20 / 25	10 / 20 / 25

Special sizes and lengths upon request

All technical information and advice are based on our experience and are to the best of our knowledge, but do not state any liability by our company. Specifications and values must always be checked by the customers, for they are the only ones that can judge the efficiency of a product taking into account all of the on site operating conditions. For detailed selection criteria, technical assistance and installation guidelines contact our technical Service.

® multiFlon® is a registered trademark
multiFlon Tape Style HP 260312 en

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Made in Bavaria Germany

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Assembly

Completely clean the sealing surfaces. Remove any dirt, corrosion, oil, or leftover from old gasket materials.

Cut one ending of the gasketing using the skiving technique shown in Figure 1 >.

Remove just a little of the covering paper from the adhesive backing and position the tape at the center of the effective sealing width, placing the skive just next to a bolt hole on its pressure relating side. Fit the gasket tape around the entire flange circumference.

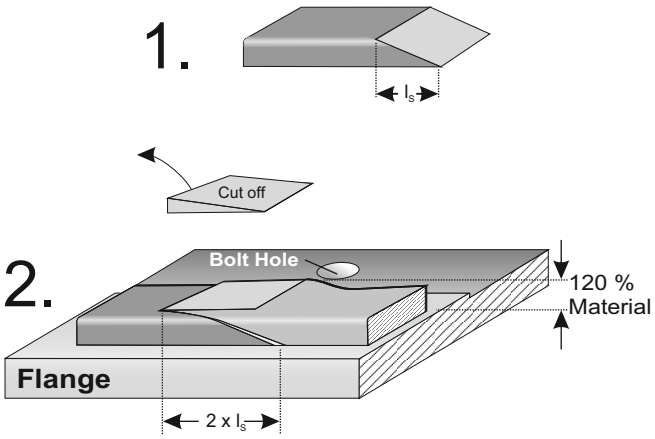
Lay the tape across the skive, completing with a second cut as shown in Figure 2 >, allowing the overlap length as required.

Horizontally cut off the excess, leaving a total thickness of approximately 120% of the original thickness.

At least 3 progressive torque sequences in a star or 180° method should be used.

Lastly, perform a circular torque check to ensure a tight, long-lasting seal.

Assembly with skiving technique



length of the skive cut l_s for multiFlon® Tape Style HP

Thickness [mm]	Lenght skive cut (l_s) [mm]
2	10 - 20
3	15 - 25
6	25 - 35

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