

Product information

REV2021313

TEADIT 25 BI

Description:

TEADIT 25 BI is a multidirectionally expanded gasket-tape, produced from 100 % pure PTFE (Polytetrafluorethylen). TEADIT maintains a quality and environmental management system that is certified according to DIN EN ISO 9001 and DIN EN ISO 14001.

Application areas:

TEADIT 25 BI – due to its excellent malleability – is particularly well suited to compensate for irregularities or damages on the sealing areas, as well as for all stress-sensitive joints. A special manufacturing process results in almost equal tensile strength in both the longitudinal and cross direction. As a result of this, the material does not change its width under compression. This is in stark contrast to normal expanded PTFE tapes!

TEADIT 25 BI, because of this property, is extremely well suited as a gasket material for narrow sealing areas and in all applications where a defined gasket width (under load) is required. Typical applications are enamelled and glass flanges, heat exchangers, large flanges and containers, pressure vessels, suction filters and strainers, etc.

Technical data:

- PTFE Temperature range: -268 °C to +260 °C (short time +315 °C)
- Chemical resistance: chemically inert against most substances (pH 0 – 14), including the most aggressive acids and lyes. The only exceptions are molten alkali metals and elemental fluorine at high temperatures and high pressure
- Ageing: **TEADIT 25 BI** does not age and can be stored indefinitely. (Please note: the adhesive tape has limited shelf life)
- Minimum stress to seal Q_{min}/L (EN 13555 HE, 40 bar)*
 - $L[mg/s*m] 10^{-2} \quad Q_{min}/L [MPa] = 23$
 - $L[mg/s*m] 10^{-3} \quad Q_{min}/L [MPa] = 31$

* tested with 2.0mm thickness

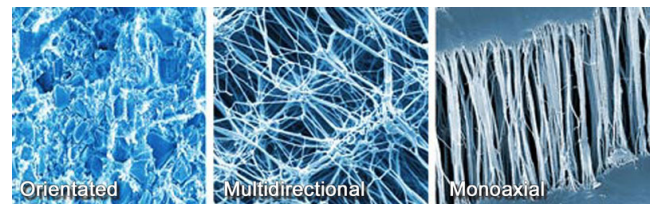
- Recovery (ASTM F36): 10 %
- Compressibility (ASTM F36): 70 %

Typical application range:

- Temperature range: -60 °C up to +230 °C
- Operating pressure: from vacuum to 40 bar
For details on applications with higher temperatures and / or pressure please contact TEADIT application engineering!

Tests & Approvals:

- FDA & EC 1935/2004 & EU 10/2011 (all incl. adhesive)
- TA-Luft
- WRAS



Advantages:

- quick and simple installation, no cutting or punching necessary
- the used gasket can be easily removed without leaving any deposits on the sealing areas
- excellent malleability makes the repair of minor damages and irregularities unnecessary
- extremely versatile because of exceptionally good chemical and thermal stability
- there is less danger of choosing the wrong gasket material because **TEADIT 25 BI** can be used for most applications within the plant
- longer gasket life (less downtime)
- no material waste
- low stock cost

Since all properties, specifications and application parameters shown throughout this catalogue are approximate and may be mutually influenced, your specific application should not be undertaken without independent study and evaluation for suitability. All technical data and advice given is based on experiences TEADIT® has made so far. Failure to select proper sealing products can result in damage and/or personal injury. Properties, specifications and application parameters are subject to change without notice. TEADIT® does not undertake any liability of any kind whatsoever. Please note: the color of the actual product might vary from the above image on this data-sheet.

Standard dimensions

width mm	thickness 2,0 mm	thickness 3,0 mm	thickness 6,0 mm	thickness 9,0 mm					
10	x	x	x	x					
15	x	x	x	x					
20	x	x	x	x					
25	x	x	x	x					
30		x	x	x					
35		x	x	x					
40		x	x	x					
45			x	x					
50			x	x					
55			x	x					
65			x	x					

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