Expanded PTFE Sheet TEADIT 24 SH

Rev.Nr.: 02/300305

Description:

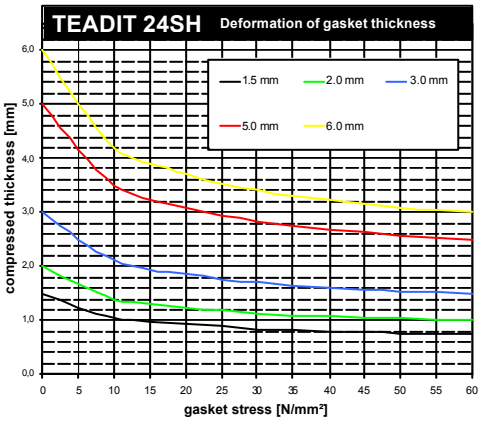
TEADIT 24SH is a large gasket sheet produced from 100% pure, multi-directionally expanded PTFE (Polytetrafluorethylen).

Properties:

Colour: white
Size: 1500mm x 1500mm
Thickness: from 0.5 mm up to 6 mm
Temperature range: -240°C up to +270°C
for short periods up to 315°C
Chemical resistance: chemically inert against all substances (pH 0-14), including the most aggressive acids and lyes. The only exceptions are molten alkali metals and elemental fluorine at high temperature and pressure.
Operating pressure: from vacuum up to 200 bar
Aging: TEADIT 24SH is not subject to aging or weathering. It can be stored indefinitely.
Safety: TEADIT 24SH complies to FDA regulations for food, is physiologically harmless and is also suitable for oxygen applications.

Advantages:

- Universally employable gasket sheet for all applications. It is suitable for all types of flanges, nearly all media, a wide temperature range and even for applications with the toughest demands on purity. It is inherently clean and non-toxic.
- The compressed gasket of multi-directionally expanded PTFE has exceptional mechanical strength which enables operation with less creep at higher temperatures than other types of PTFE sheets.
- The excellent malleability of TEADIT 24SH makes repairing of small damages and/or irregularities of the sealing area (flange surface) unnecessary.
- Gaskets cut from TEADIT 24SH are dimensionally stable, i.e. they do not get wider when compressed. This allows narrow flange faces to be sealed safely, i.e. without causing turbulences in the flow of the media.
- TEADIT 24SH is quick and simple to install. The used gasket can be removed quickly, easily and without residue.



Approvals:
TA Luft
FMPA
FDA

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Since all properties, specifications and application parameters shown throughout this product information 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 liability of any kind whatsoever.

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Property	Test Method	Nominal Value	Parameters
Compressibility [%]	ASTM F 36 A	45	σ = 34 MPa
Recovery [%]	ASTM F 36 A	14	σ = 34 MPa
Compressibility ε_{KSW} [%]	DIN 28090 - 2	41	σ = 20 MPa
Recovery ε_{KRW} [%]	DIN 28090 - 2	10	σ = 20 MPa
Tensile strength [MPa]	DIN 52910	29	Room temperature
Stress retention [MPa]	DIN 52913	15	30N/mm^2, 150°C, 16h
$Q_{min, 0.01}$ [MPa]	prEN 13555	23	He, 40 bar
$Q_{Smin, 0.01}$ [MPa]	prEN 13555	< 10	He, 40 bar
$Q_{min, 0.001}$ [MPa]	prEN 13555	31	He, 40 bar
$Q_{Smin, 0.001}$ [MPa]	prEN 13555	< 10	He, 40 bar
Q_{crit} [MPa]	prEN 13555	> 240	Room temperature
Q_{SMAX} [MPa]	prEN 13555	> 240	Room temperature
E_0 [MPa]	prEN 13555	120	Room temperature
K_l [1]	prEN 13555	16	Room temperature
Specific leakage rate L [mbar · l / (s · m)]	VDI 2440 / TA LUFT	$2.6 \cdot 10^{-7}$	He, 1bar, 30 MPa

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