

TEADIT PL 100

Description:

TEADIT PL 100 gasket sheets are produced from virgin PTFE resin filled with hollow glass micro spheres. **TEADIT PL 100** is manufactured by a unique process which provides a bidirectional fibrillation to overcome the creep relaxation and cold flow problems associated with standard (skived or moulded) PTFE sheets.

Advantages:

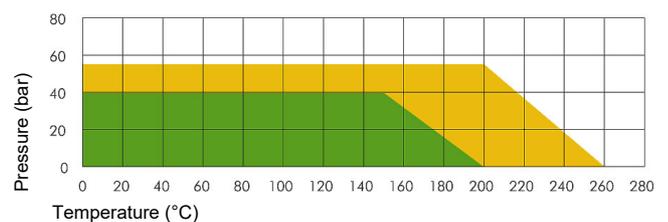
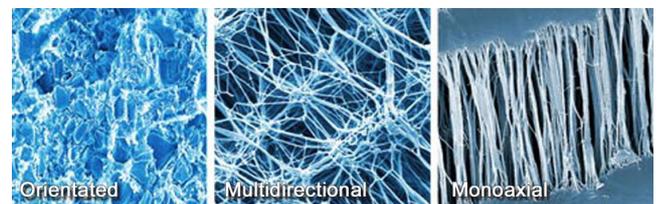
- **TEADIT PL 100** is an universal gasket material.
- High mechanical strength and stress retention value.
- The excellent malleability of **TEADIT PL 100** makes repairing of slightly damaged and/or small irregularities of the sealing area (flange surface) unnecessary.
- **TEADIT PL 100** is suitable for service with a wide variety of fluids, including hydrocarbons.
- **TEADIT PL 100** is quick and simple to install. The used gasket can be removed easily and without residue.

Properties:

- Color: white
- Size: Sheets of 1500 mm x 1500 mm
- Thickness: 1.5 mm up to 3.0 mm (other thicknesses on request)
- Temperature: -268 °C to +260 °C
- Operating Pressure: 55 bar
- Chemical resistance: chemically inert against all substances (pH 0-14), including the most aggressive acids and lyes. It is not recommended for strong caustic service above 80°C. It may not be used in contact with molten alkali metals and elemental fluorine at high temperature and high pressure.
- Aging: **TEADIT PL 100** is not subject to aging or weathering. It can be stored indefinitely.
- Flame Resistance

Confirmation and Tests:

- FDA Confirmation
- EN 13555 Values for TA-Luft (EN 1591-1 Calculation)



P x T diagram:

The P x T diagram above indicates the service limits considering the simultaneous influence of pressure and temperature. The green area represents the normal service limits, while the orange colored area shows the maximum application limits.

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.

TEADIT PL 100		
Technical Parameters	Unit	TEADIT PL 100
Thickness	[mm]	1,5 / 2,0 / 3,0
Sheet dimensions	[mm]	1500 x 1500
Filler		Glass micro spheres
Color material		white
Color printing		blue
Operating Temperature Range	[°C]	- 268 to + 260
Operating pressure	[bar]	Vacuum to 83
Gasket factors acc. DIN28090-2		
Compression (room temperature) ϵ_{KSW}	[%]	>30
Creep relaxation (room temperature) ϵ_{KRW}	[%]	>4
Compression (elevated temperature) ϵ_{WSW}	[%]	<40
Gasket factors acc. ASTM		
Compressibility ASTM F 36M (34,5 MPa)	[%]	50
Recovery ASTM F 36M (34,5 MPa)	[%]	16
Creep ASTM F 38 (100 °C)	[%]	40
Other Properties		
Residual stress DIN 52913	MPa	13
Leakage rate TA Luft / VDI 2440	mbar*I/(s*m)	1,1*10-5
Leakage rate DIN 3535-6 (40bar, N2)	ml/min	<0,01
Tensile strength ASTM F 152	MPa	14
Gasket factor "m" ASTM		2 (for 2,0 mm)
Minimum gasket stress "y Stress" ASTM	psi	2300 (for 2,0 mm)

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