

GYLON® Style 3522

High performance PTFE gasketing

Description

GYLON® Style 3522 (translucent) is a high performance gasketing material made of multi-layered PTFE for permanent resilience. GYLON® Style 3522 has the maximum chemical resistance of 100% pure PTFE. Because of its outstanding properties this gasketing material is the first choice especially within the Food & Pharma segments. The range of applications includes diaphragms and the Gylon® BIO-LINE® Plus.



Main Segments

» Food & Beverage
» Pharmaceutical
» Pump/Valve
» Petrochemical Industry
» Chemical Industry

Certificates/Declarations*

» FDA
» 3A (Sanitary Standard)
» EC1935/2004 incl. EC10/2011
» USP Class VI <88>
» USP <31>, <87>, <281>, <661>
» Phthalate free (declaration)
» TA – Luft incl. blow-out proof
» Silicone free
» ADI free (EMEA 410/01)

Key Benefits

» 10 N/mm ² minimum load (140 N/mm ² maximum load)
» Wide temperature range
» Stopped cold flow
» High resilience
» High pressure & vacuum duties
» Excellent chemical resistance**
» Available with inner-/outer eyelet
» Good electrical insulating properties
» Unlimited shelf-life
» Weather and UV resistant

Features*

» Temperature: -268 °C to +260 °C
» Pressure: up to 55 bar
» Shore hardness: D59
» Available Thicknesses: 0.5mm, 0.7mm, 0.8mm, 1.0mm, 1.25mm, 1.6mm, 1.72mm, 2.0mm (More thicknesses on request)
» Compressibility (ASTM F36) 20-25%
» Recovery (ASTM F36) 5%
» 100% pure PTFE (No filler)

* Depending on product and application details.

** See Garlock resistance table.

Installation Recommendation

Please note the information given below is to ensure a long service life and sealing integrity of your gaskets.

1 First check

- » Is the selected material suitable for the application?
Do temperature, pressure and medium agree with the process data?
- » Does the gasket have the correct dimensions regarding thickness, inside and outside diameter for the components?
- » Can bolts deliver the necessary seating stress to the gasket?
- » Has the bolt torque been correctly calculated?

GARLOCK will calculate the correct torque levels upon request!

2 Before installation

- » Remove old gasket, and clean flange surface of all debris. For the best results, use a metal flange scraper, an aerosol gasket remover and a wire brush, suitable for the flange, then inspect the flange for damage. Be sure surface finish and flatness are satisfactory.
- » Use the thinnest possible gasket. However, flanges that are warped, bowed or severely pitted require thicker gaskets.
- » Whenever possible, on metric flanges, use ring gaskets. Full face gaskets have more surface area, requiring additional compressive load on the gasket.
- » Never use metal-based anti-seize on gaskets, since particles may accumulate in the surface imperfections, thereby creating a flange surface that is too smooth to be effective. Such coatings will also greatly impair the resistance of the gasket pressure.

3 Installation

- » Center the gasket on the flange. This is extremely vital where raised faces are involved.
Note: Standard ANSI ring gaskets, when properly cut should center themselves when the bolts are in place.
- » Use a torque wrench and well-lubricated fasteners with hardened flat washers to ensure correct initial loading.
- » Tighten bolts to compress gasket uniformly. This means going from side around the joint in a star-like crossing pattern (see figures below).
- » All bolts should be tightened in one-third increments, according to proper bolting patterns.
 - A) Initially to 30% of the specified torque
 - B) 2nd step to 70% of the specified torque
 - C) 3rd step to 100% of the specified torque
 - D) 4th step round clockwise with 100% torque
- » We do not recommend retorquing pressurized systems. Retorques should be performed on room temperature (non-pressurized) systems 12-24 hours after initial installation.
- » All applicable safety standards including lockout/tagout procedure should be observed.
- » Never use liquid or metallic based anti-stick or lubricating compounds on the gaskets. Premature failure could occur as a result.

Note:
Properties/applications shown throughout this brochure are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult Garlock. Failure to select the proper sealing products could result in property damage and/or serious personal injury. Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing. While the utmost care has been used in compiling this brochure, we assume no responsibility for errors. Specifications subject to change without notice. This edition cancels all previous issues. Subject to change without notice GARLOCK is a registered trademark for packings, seals, gaskets, and other products of Garlock.
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