

GYLON® Style 3522 Diaphragm Material

Benefits

Chemical and temperature resistance

- Withstands aggressive chemicals and temperatures up to +500°F (+260°C). Consult Garlock Engineering regarding your specific application.

Resilience

- Up to three times the flex life of conventional PTFE

Conforms to FDA regulations

Comparison of Typical Physical Properties*

	GYLON® 3522	Skived PTFE
Color	Clear, translucent	—
Composition	PTFE	—
Temperature Maximum†	+500°F (+260°C)	—
Creep Relaxation (ASTM F38) %	35	51
Specific Gravity (D792)	2.19	2.185
Compressibility (ASTM F36) % Range	20-25	20-25
Recovery (ASTM F36) %	>50	>50
Tensile Strength (ASTM D1708)		
X direction psi (N/mm ²)	5,000 (35)	4,050 (28)
Y direction psi (N/mm ²)	5,100 (36)	3,000 (21)
Ultimate Elongation (ASTM D1708)		
X direction %	500	550
Y direction %	520	450
Gas Permeability (ASTM D1434V) cc/M ² /24 hrs	10,000	35,000
Flammability	Will not burn	—
Bacterial Growth	Will not support	—

This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results in accordance with ASTM F-104; properties based on 1/32" (0.8mm) sheet thickness.

* Values do not constitute specification limits

† When approaching maximum pressure and temperature, consult Garlock Applications Engineering.

** Patent #4,990,296

†† O.D. sizes 70" (1778 mm) and over

Welded GYLON®

Benefits

Effective seal

- Patented** welding process produces large gaskets†† without dovetailed joints that permit leakage
- GYLON® material provides the excellent chemical resistance of PTFE without creep relaxation and cold flow problems

Versatile

- Ideal for corrosive applications with extra-large flanges
- Styles 3500, 3504, and 3510 can be welded using this unique process

Conforms to FDA regulations



**Questions? Call Gasket
Applications Engineering
at 1-800-448-6688.**

Note:

Due to unique dynamics of actuated pumps, Garlock cannot specify temperature limits for the Style 3522 materials. In a diaphragm pump there are variables such as, but not limited to: geometry, displacement, and pump speed that greatly affect the diaphragm performance. Experienced pump manufacturers have confirmed that pumps used in low and/or elevated service temperatures (40°F to 200°F) should be de-rated with respect to speed and pressure.

WARNING:

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.

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