

***Garlock® GRAPH-LOCK®
Style 3125-TC-PH***

Temperature: -400°F (-240°C) to +975°F (+524°C) in atmosphere;
+1200°F (+650°C) in steam;
Pressure (max.): 2000psig (70 bar)
P x T (max.)¹: 700,000 (25,000) 1/16" and 1/32"
350,000 (12,000) 1/8"

<u>ASTM TEST METHOD</u>	<u>PHYSICAL PROPERTIES</u>	<u>TYPICAL RESULTS</u>
ASTM F-37B	Sealability ml/hr. Leakage, ASTM Fuel A (isooctane): Gasket Load, 500 psi (3.5 N/mm ²) Internal Pressure, 9.8 psig (.7 bar) Nitrogen: Gasket Load, 3000 psi (20.7 N/mm ²) Internal Pressure, 30 psig (2 bar)	1.5* 0.5
ASTM F-36	Recovery , %	23
ASTM F-36	Compressibility , %	30
ASTM F-38	Creep Relaxation , %	5
ASTM F-152	Tensile Strength (psi) Across Grain, psi (N/mm ²):	2500
DIN 3535 Part 4	Gas Permeation , cc/min.: Nitrogen: Internal pressure: 580 psig (40 bar) Gasket Load: 4640 psi (32 N/mm ²)	0.4

NOTE: This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results are in accordance with ASTM F104; properties based on 1/32" (0.8 mm) sheet thickness (except as noted).

* 1000 psi gasket load

¹P x T, max. = psig x °F (bar x °C). Based on ANSI RF flanges at our preferred torque. Consult Garlock Applications Engineering when approaching maximum pressure or 50% of maximum P x T.

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Garlock Style 3125-TC-PH is laminated from .015” thick layers of purified natural graphite flake that has been acid washed, expanded under heat, then compressed into sheets with a minimum graphite content of 98%. This sheet contains a 316 Stainless Steel Tang insert (.004” thick; 36 tangs/sq in.) mechanically bonded in the middle of the graphite layers. This sheet does not contain any adhesive or bonding agents.

Chemical Impurity Data:

Leachable Chlorides: 50 ppm max.

Leachable Fluorides: 100 ppm max.

Leachable Sulfur: 200 ppm max.

Total Chlorides: 200 ppm max.

Total Sulfur: 1400 ppm max.

Sheet Thickness: 1/32”, 1/16”, 1/8”

Sheet Size: 39.4” x 39.4”, *60” x 60”

Bulk Density: 70.0 lb/cu. ft. (1.1 grams/cm³)

* Not available in 1/32” thick.