

Garlock® GRAPH-LOCK®
Style 3125-TC

Temperature: -400°F (-240°C) to +850°F (+454°C)¹ in atmosphere;
+1200°F (+650°C) in steam;
Pressure (max.): 2000psig (140 bar)
P x T (max.)²: 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, %	10
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

¹ Service life is dependant on factors such as compressive stress applied, oxygen content of media, flow rate, exposed surface area, and temperature gradient across the gasket cross section.

² P 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 is laminated from .015" thick layers of purified natural graphite flake that has been acid washed, expanded under heat, and 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:	100 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:	40" x 40", *59.4" x 60"
Bulk Density:	70.0 lb/cu. ft. (1.1 grams/cm ³)

* Not available in 1/32" thick.