

Garlock GRAPH-LOCK® Style 3125-MC

Temperature: -400°F (-240°C) to +450°F (+232°C)
Pressure (max.): 2000 psig (140 bar)
P x T (max.)¹: 700,000 (25,000) 1/16" and 1/32"
350,000 (12,000) 1/8"

<u>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)	0.1 1.0
ASTM F-36	Recovery (%) :	15
ASTM F-36	Compressibility, (%) :	35
ASTM F-38	Creep Relaxation, (%) :	10
ASTM F-152	Tensile Strength (psi) Across Grain, psi (N/mm ²):	850 (5.9)
DIN 3535 Part 4	Gas Permeation: cc/min. Nitrogen: Internal pressure: 580 psig (40 bar) Gasket Load: 4640 psi (32 N/mm ²)	0.5

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).

¹ 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.

GRAPH-LOCK[®] Style 3125-MC

Garlock Style 3125-MC 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 .0005" thick mylar insert bonded in the middle of the graphite layers.

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/cm³)

Chemical Properties

Carbon Content: 98.0 % minimum
Ash Content: 5.0 % maximum
Sulfur Content: 1400 ppm nominal
Leachable Chlorides: 50 ppm maximum