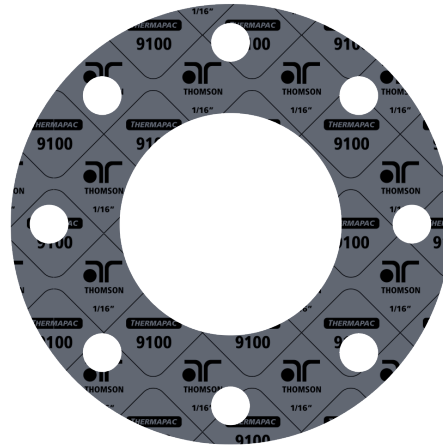


Thomson THERMAPAC® 9100

Carbon Fiber / Nitrile Binder



FEATURES / BENEFITS

- High temperature capability, steam and chemical resistance.
- Flexible and easy to cut compared with typical carbon-based sheet.
- Reduces maintenance - maintains effective seal during pressure and thermal cycling (superior torque retention).

TYPICAL APPLICATIONS

- General service sheet packing material for demanding applications in Chemical, Pulp and Paper, Petroleum, Power Generation, and high temperature service in all industries.
- Saturated steam to 150 lbs, water, oils, gasoline, aliphatic hydrocarbons and most refrigerants.

“M & Y” FACTORS

Thickness		“m”	“y”
in	mm	(no units)	psi
1/16	1.6	3.7	3515
1/8	3.2	3.0	4014

SPECIFICATIONS

Construction: Carbon Fiber / Nitrile Binder

Temperatures:

Minimum: -100°F (-73°C)

Intermittent: +900°F (+482°C)

Continuous: +650°F (+343°C)

For steam applications above 150 lbs saturated contact A.R. Thomson Group.

Tensile Strength: 1800 psi

Pressure, max: 2000 psi

pH Range: 3–11

Color: Black with Black branding.

See reverse for more technical data.

*Maximum operating limits are conservative. Please contact an A.R. Thomson Group representative for higher pressures.

TECHNICAL DATA - THERMAPAC® 9100

Physical Properties			
TEST METHOD	TYPICAL PHYSICAL PROPERTIES		
ASTM F36	Compressibility: range, %	8–16	
ASTM F36	Recovery: %	50	
ASTM F38	Creep relaxation: 1/32" Thick, %	18	
ASTM F152	Tensile across grain: psi (N/mm ²)	1800 (12)	
ASTM F1315	Density: lbs/ft ³ (grams/cm ³)	100 (1.68)	
ASTM D149	Dielectric breakdown: kv/mm	0.04	
ASTM F586	Design Factors:	1/16"	1/8"
	"m" factor	3.7	3.0
	"y" factor, psi	3515	4014
ROTT	Gasket constants: 1/16"	Gb=1591	a=0.239 Gs=9.3
ASTM F104	Line call out:	F712120-B3E22M5	

Immersion Properties* - ASTM F146 Fluid Resistance After Five Hours

	ASTM IRM #903 300°F (150°C)	ASTM FUEL B 70–85°F (20–30°C)
Thickness increase: %	0–10	0–10
Weight increase: %	10	12

Sealing Characteristics

	DIN 3535 NITROGEN
Leakage: ml/min	0.5

NOTES

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 1/16" (1.5 mm) sheet thickness unless otherwise mentioned.

*Values do not constitute specification Limits

²Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum P_{xT}, consult A.R. Thomson Group. Minimum temperature rating is conservative.

³Minimum recommended assembly stress=4800 psi. Preferred assembly stress=6000–10000 psi. Gasket thickness of 1/16" strongly preferred. Retorque the bolts/studs prior to pressurizing the assembly. For saturated steam above 150 psig or superheated steam, consult A.R. Thomson Group.

AUTHORIZED DISTRIBUTOR

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