

# Thomson THERMAPAC® 9950

Inorganic Fiber / Nitrile Binder / Graphite



## FEATURES / BENEFITS

- Exceptional sheet material with unsurpassed temperature and pressure capability.
- Good chemical compatibility.
- Superior load retention in thermal cycling conditions.
- Passes API 607 Fire Safe Gasket Test.

## TYPICAL APPLICATIONS

- Steam and superheated steam applications to 825°F continuous.
- Moderate chemical service including ethanol, liquid petroleum and petroleum derivatives.

## “M & Y” FACTORS

Thickness		“m”	“y”
in	mm	(no units)	psi
1/16	1.6	2.6	4500
1/8	3.2	6.1	4500

## SPECIFICATIONS

### Construction:

Inorganic Fiber / Nitrile Binder / Graphite

### Temperatures:

Minimum: -40°F (-40°C)

Intermittent: +1020°F (+549°C)

Continuous: +825°F (+440°C)

### Pressures:

Maximum: 2150 psi

Continuous: 1480 psi

**Color:** Black with Orange branding.

See reverse for technical data.

## TECHNICAL DATA - THERMAPAC® 9950

Physical Properties		
TEST METHOD	TYPICAL PHYSICAL PROPERTIES	
ASTM F36	<b>Compressibility:</b> range, %	12–22
DIN 52913	<b>Recovery:</b> minimum, %	40
ASTM F38	<b>Torque retention:</b> MPa	43
ASTM F152	<b>Tensile across grain:</b> psi	1305
ASTM F1315	<b>Density:</b> lbs/ft <sup>3</sup> (grams/cm <sup>3</sup> )	91 (1.46)
ASTM F586	<b>Design Factors:</b>	<b>1/16"</b> <b>1/8"</b>
	"m" factor	2.6      6.1
	"y" factor, psi	4500      4500

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)
<b>Thickness increase:</b> %	15	15
<b>Weight increase:</b> %	30	20

Sealing Characteristics	
	DIN 3535 NITROGEN
<b>Leakage:</b> ml/hr	1.8

## 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. When approaching maximum operating temperature or pressure limits, consult A.R. Thomson Group.

\*Values do not constitute specification Limits.

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