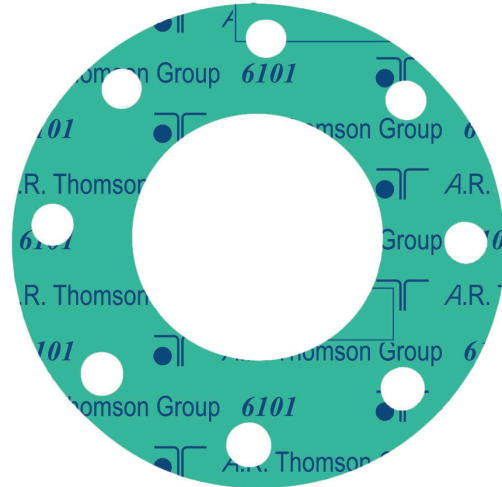


Thomson MULTIPAC 6101

Aramid fibers / Nitrile binder



Specifications

Material:

Aramid fibers / Nitrile binder

Temperature, max:

Minimum -100°F (-75°C)
Intermittent 700°F (370°C)
Continuous 400°F (205°C)

Tensile Strength:

ASTM 152 Average Tensile (psi) 2,100

Pressure, max:

1,000 psi (69 bar)

P x T, max:

PXT (max.), psig x °F (bar x °C)
1/32" & 1/16" 350,000 (12,000)
1/8" 250,000 (8,600)

Color: Green

Benefits

- High tensile strength makes for a robust gasket material, which is flexible and easy to cut
- Improved formulation for higher temperature and pressure service
- Excellent mechanical properties
- Non Asbestos

Ideal for

- General service sheet packing material for fabrication of gaskets for non critical applications in marine, mining, wastewater, slurry, pulp and paper and petroleum industries. Water, aliphatic hydrocarbons, oils, gasoline,
- Not recommended for steam, high temperature or chemical service

“M & Y” Factors

	Thickness		“m” (no units)	“y”		
	in	mm		psi	N/mm ²	kgf/mm ²
6101	1/16	1.6	3.5	2,000	13.8	1.40
	1/8	3.2	4.0	3,000	20.7	2.11

Actual performance may vary and is determined by factors unique to a given application. It is recommended that care be taken in the selection and application of materials for hazardous services and controlled testing be undertaken to determine suitability for a specific application.

Physical Properties

Test Method	Typical Physical Properties		
ASTM F36	Compressibility, range, %	7-17	
ASTM F36	Recovery, %	40	
ASTM F38	Creep Relaxation, %	27 ⁽¹⁾	
ASTM F152	Tensile, Across Grain, psi (N/mm²)	1,500 (10)	
ASTM F1315	Density, lbs./ft.³ (grams/cm³)	117 (1.87)	
ASTM F433	Thermal Conductivity (K), W/m²K (Btu..in./hr..ft.².°F):	0.29-0.38 (2.00-2.65)	
ASTM F586	Design Factors	1/16"	1/8"
	"m" factor:	3.5 ⁽²⁾	4.0 ⁽²⁾
	"y" factor, psi (N/mm ²):	2,000 ⁽²⁾ (13.8)	3,000 ⁽²⁾ (20.7)
ASTM F104	Line Call Out:	F712110A9B5E12M6T	

Immersion Properties* - ASTM F146 Fluid Resistance after Five Hours

	ASTM #1 OIL 300°F (150°C)	ASTM IRM #903 300°F (150°C)	ASTM FUEL A 70-85°F (20-30°C)	ASTM FUEL B 70-85°F (20-30°C)
Thickness Increase, (%)	0-5	0-10	0-5	0-10
Weight Increase, (%)	0-10	-	0-10	20 max
Tensile Loss, (%)	-	0-35	-	-

Sealing Characteristics

	ASTM F37B NITROGEN	BS 7531 GAS LEAKAGE
Gasket Load, psi (N/mm²):	3,000 (20.7)	
Internal Pressure, psig (bar):	30 (2)	
Leakage:	.04 mil/min.	<1.0 cc/min.

AUTHORIZED DISTRIBUTOR

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" (0.8 mm) sheet thickness unless otherwise mentioned.

Based on ANSI RF flanges at our preferred torque - when approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum P x T, consult A.R. Thomson Group. Minimum temperature rating is conservative.

* Values do not constitute specification Limits

¹ ASTM F38 is based on 1/32" sheet thickness.

² These values are for Thomson MULTIPAC 6101.

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