

## Style 8314

### MATERIAL PROPERTIES\*:

<b>Color:</b>	Black
<b>Composition:</b>	EPDM
<b>Durometer, Shore A, (+/- 5):</b>	60
<b>Temperature<sup>1</sup>, °F (°C)</b>	
Minimum:	-40 (-40)
Maximum:	300 (150)
<b>Pressure<sup>1</sup>, (psig (bar)):</b>	
<b>Preferred operating:</b>	150 (10)
<b>Maximum:</b>	250 (17)
<b>P x T (max.)<sup>1</sup>, psig x °F (bar x °C):</b>	30,000 (900)
<b>Finish Available</b>	
Through 1/8"	Cloth
Over 1/8"	Smooth

### TYPICAL PHYSICAL PROPERTIES\*:

<b>ASTM D412</b>	<b>Tensile Strength, psi (N/mm<sup>2</sup>):</b>	1200 (8.2)
<b>ASTM D412</b>	<b>Elongation, %:</b>	300
<b>ASTM D395 B</b>	<b>Compression Set, 25% Deflection, Max. %</b> 22 hours at 158°F (70°C):	25
<b>ASTM D149</b>	<b>Dielectric Properties, range, volts/mil.</b>	
	Sample conditioning	<u>1/8"</u>
	None	4
<b>ASTM F586</b>	<b>Design Factors</b>	
	“m” factor:	0.50
	“y” factor, psi (N/mm <sup>2</sup> ):	0 <sup>(2)</sup>
<b>ASTM D2000<sup>(3)</sup></b>	<b>Line Call Out:</b>	4AA610A13B13B33, BA610A14B13

#### Notes:

\* This is a general guide and should not be the sole means of selecting or rejecting this material. Values do not constitute specification limits.

<sup>1</sup> When approaching maximum pressure and/or temperature, minimum temperature or 50% of maximum P x T, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

<sup>2</sup> Garlock Applications Engineering has historically recommended using a “y” values of 100 psi (0.7 N/mm<sup>2</sup>) when performing flange calculations for lower durometer elastomers.

<sup>3</sup> ASTM D2000 line call out is based on testing performed on slabs made to ASTM D412.

REV: 11/9/16

**ASME B16.21\* Non-metallic Gasket Dimensions for  
ASME B16.5 & B16.47 - 150# Flanges**

Pipe Size	Gasket I.D.	Ring		Full Face		
		Gasket O.D.	Gasket O.D.	Bolt Circle	Bolt Hole Qty.	Bolt Hole Dia.
0.5	0.84	1.88	3.50	2.38	4	0.63
0.75	1.06	2.25	3.88	2.75	4	0.63
1	1.31	2.62	4.25	3.13	4	0.63
1.25	1.66	3.00	4.63	3.50	4	0.63
1.5	1.91	3.38	5.00	3.88	4	0.63
2	2.38	4.12	6.00	4.75	4	0.75
2.5	2.88	4.88	7.00	5.50	4	0.75
3	3.50	5.38	7.50	6.00	4	0.75
3.5	4.00	6.38	8.50	7.00	8	0.75
4	4.50	6.88	9.00	7.50	8	0.75
5	5.56	7.75	10.00	8.50	8	0.88
6	6.62	8.75	11.00	9.50	8	0.88
8	8.62	11.00	13.50	11.75	8	0.88
10	10.75	13.38	16.00	14.25	12	1.00
12	12.75	16.13	19.00	17.00	12	1.00
14	14.00	17.75	21.00	18.75	12	1.13
16	16.00	20.25	23.50	21.25	16	1.13
18	18.00	21.62	25.00	22.75	16	1.25
20	20.00	23.88	27.50	25.00	20	1.25
24	24.00	28.25	32.00	29.50	20	1.38

Series A		Ring		Full Face*		
Pipe Size	Gasket I.D.	Gasket O.D.	Gasket O.D.	Bolt Circle	Bolt Hole Qty.	Bolt Hole Dia.
26	26.00	30.50	34.25	31.75	24	1.38
28	28.00	32.75	36.50	34.00	28	1.38
30	30.00	34.75	38.75	36.00	28	1.38
32	32.00	37.00	41.75	38.50	28	1.63
34	34.00	39.00	43.75	40.50	32	1.63
36	36.00	41.25	46.00	42.75	32	1.63
38	38.00	43.75	48.75	45.25	32	1.63
40	40.00	45.75	50.75	47.25	36	1.63
42	42.00	48.00	53.00	49.50	36	1.63
44	44.00	50.25	55.25	51.75	40	1.63
46	46.00	52.25	57.25	53.75	40	1.63
48	48.00	54.50	59.50	56.00	44	1.63
50	50.00	56.50	61.75	58.25	44	1.88
52	52.00	58.75	64.00	60.50	44	1.88
54	54.00	61.00	66.25	62.75	44	1.88
56	56.00	63.25	68.75	65.00	48	1.88
58	58.00	65.50	71.00	67.25	48	1.88
60	60.00	67.50	73.00	69.25	52	1.88

\* ASME B16.21 does not provide full face dimensions for ASME B16.47 - 150# flanges.

Series B		Ring		Full Face*		
Pipe Size	Gasket I.D.	Gasket O.D.	Gasket O.D.	Bolt Circle	Bolt Hole Qty.	Bolt Hole Dia.
26	26.00	28.56	30.94	29.31	36	0.88
28	28.00	30.56	32.94	31.31	40	0.88
30	30.00	32.56	34.94	33.31	44	0.88
32	32.00	34.69	37.06	35.44	48	0.88
34	34.00	36.81	39.56	37.69	40	1.00
36	36.00	38.88	41.62	39.75	44	1.00
38	38.00	41.12	44.25	42.12	40	1.12
40	40.00	43.12	46.25	44.12	44	1.12
42	42.00	45.12	48.25	46.12	48	1.12
44	44.00	47.12	50.25	48.12	52	1.12
46	46.00	49.44	52.81	50.56	40	1.25
48	48.00	51.44	54.81	52.56	44	1.25
50	50.00	53.44	56.81	54.56	48	1.25
52	52.00	55.44	58.81	56.56	52	1.25
54	54.00	57.62	61	58.75	56	1.25
56	56.00	59.62	63	60.75	60	1.25
58	58.00	62.19	65.94	63.44	48	1.38
60	60.00	64.19	67.94	65.44	52	1.38

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