

Style 8316

MATERIAL PROPERTIES*:

Color:	Off-white
Composition:	EPDM Rubber
Durometer, Shore A, (+/- 5):	60
Temperature ¹ , °F (°C)	
Minimum:	-40 (-400)
Maximum:	+300 (+150)
Pressure ¹ , (psig (bar):	
Preferred operating:	150 (10)
Maximum:	250 (17)
P x T (max.) ¹ , psig x °F (bar x °C):	30,000 (900)
Finish Available	
Through 1/8"	Cloth
Over 1/8"	Smooth
Meets Specifications:	FDA ⁽⁵⁾

TYPICAL PHYSICAL PROPERTIES*:

ASTM D412 Tensile Strength, psi (N/mm²): 2002 (14) ASTM D412 Elongation, %: 468 ASTM D395 B Compression Set, 25% Deflection, Max. % 22 hours at 158°F (70°C): 33.3 22 hours at 212ºF (100ºC): 62.6 ASTM D149 Dielectric Properties, range, volts/mil. Sample conditioning 1/8" None 4 ASTM F586 Design Factors "m" factor: 0.50 "y" factor, psi (N/mm²): 0(4) ASTM D2000(3) Line Call Out: AA610Z1			
ASTM D395 B Compression Set, 25% Deflection, Max. % 22 hours at 158°F (70°C):	ASTM D412	Tensile Strength, psi (N/mm²):	2002 (14)
22 hours at 158°F (70°C):	ASTM D412	Elongation, %:	468
22 hours at 212°F (100°C): ASTM D149 Dielectric Properties, range, volts/mil. Sample conditioning None 4 ASTM F586 Design Factors "m" factor: "y" factor, psi (N/mm²): 0.50 "y" factor, psi (N/mm²):	ASTM D395 B	Compression Set, 25% Deflection, Max. %	
ASTM D149 Dielectric Properties, range, volts/mil. Sample conditioning None ASTM F586 Design Factors "m" factor: "y" factor, psi (N/mm²): Dielectric Properties, range, volts/mil. 1/8" 4 0.50 0.50		22 hours at 158°F (70°C):	33.3
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None 4 ASTM F586 Design Factors "m" factor: 0.50 "y" factor, psi (N/mm²): 0 ⁽⁴⁾	ASTM D149	Dielectric Properties, range, volts/mil.	
ASTM F586 Design Factors "m" factor: 0.50 "y" factor, psi (N/mm²): 0 ⁽⁴⁾		Sample conditioning	<u>1/8"</u>
"m" factor: 0.50 "y" factor, psi (N/mm²): 0 ⁽⁴⁾		None	4
"y" factor, psi (N/mm²): 0 ⁽⁴⁾	ASTM F586	Design Factors	
		"m" factor:	
ASTM D2000 ⁽³⁾ Line Call Out: AA610Z1		"y" factor, psi (N/mm²):	$O^{(4)}$
	ASTM D2000 ⁽³⁾	Line Call Out:	AA610Z1

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.

¹ When approaching maximum pressure and/or temperature, minimum temperature or 50% of maximum PxT, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

 $^{^{\}rm 3}$ ASTM D2000 line call out is based on testing performed on slabs made to ASTM D412.

⁴ Garlock Applications Engineering has historically recommended a suggested "Y" value of 100psi (0.7N/mm2) for these elastomers.

⁵ Style 8316 is in compliance with FDA regulations (21CFR177.2600) for service against aqueous (water based) foods, but not for fatty-type foods or milk.