

Arlon Silicone Sponge Closed - Cell

Product Data Sheet

Arlon Silicone Sponge Closed-Cell is an excellent material for gasketing applications that require soft to extra-firm compressible material. It is resistant to extreme temperatures and offers good compression set to general industry standards.

Features & Benefits:

- Excellent general purpose gasket
- Extreme high & low temperature resistance
- UV & ozone resistant
- Wide range of firmness, thickness, and widths
- Closed-cell

STANDARD GRADES

Thickness, mm (inches)	All products	0.81 - 25.4* (0.032 -1.0)
------------------------	--------------	------------------------------

Width, mm (inches)	Standard Available	914 (36) 1219 (48)
--------------------	--------------------	-----------------------

PRODUCT/COLOR	SOFT	MEDIUM	FIRM	EXTRA FIRM
Red	1135S	1135M	1135F	1135XF
White	1115S	1115M	1115F	1115XF
Black	1125S	1125M	1125F	1125XF
Gray	1145S	1145M	1145F	1145XF

PHYSICAL PROPERTY	TEST METHOD				
Density (thickness < 6.35mm), kg/m ³ (lbs/ft ³)	ASTM D1056	498.2 (0.018)	498.2 (0.018)	636.6 (0.023)	775.0 (0.028)
Density (thickness ≥ 6.35mm), kg/m ³ (lbs/ft ³)	ASTM D1056	553.6 (0.020)	553.6 (0.020)	775.0 (0.028)	913.4 (0.033)
Compression Deflection, KPa (psi)	ASTM D156	34.5 - 62 (5 - 9)	41 - 97 (6 - 14)	83 - 138 (12 - 20)	117 - 172 (17 - 25)
Compression Set, % 22 hrs / 100 °C / 50% compressed	ASTM D1056	29	29	25	35
Tensile Strength, KPa (psi)	ASTM D412 Die A	620 (90)	690 (100)	1379 (200)	2068 (300)
Elongation, %	ASTM D412 Die A	150	200	225	250
Water Absorption, %	ASTM D1056	5	5	5	5
Surface Finish	Standard Nonstandard	Fine Fabric Heavy Fabric	Fine Fabric Heavy Fabric	Fine Fabric Heavy Fabric	Fine Fabric Heavy Fabric

*Thickness over 12.70 mm (0.500 inches) is achieved through the lamination of multiple material layers.

Standard Thickness, Tolerance and Roll Length

THICKNESS mm (inches)			ROLL LENGTH m (yard)
STANDARD	NOMINAL RANGE	TOLERANCE	STANDARD
0.81 (0.032)	0 - 1.6 (0 - 0.063)	+ 0.041, - 0.076 (+ 0.030, - 0.016)	36.6 (40)
1.60 (0.063)			18.3 (20)
2.40 (0.094)	1.61 - 4.78 (0.064 - 0.188)	± 0.76 (± 0.030)	18.3 (20)
3.20 (0.125)			18.3 (20)
4.78 (0.188)			9.1 (10)
6.40 (0.250)			9.1 (10)
9.53 (0.375)	7.96 - 12.70 (0.314 - 0.500)	± 1.52 (± 0.060)	4.6 (5)
12.70 (0.500)			4.6 (5)
15.88 (0.625)	12.71 - 19.05 (0.501 - 0.750)	± 2.29 (± 0.090)	4.6 (5)
19.05 (0.750)			4.6 (5)
25.40 (1.000)	> 19.06 (> 0.751)	± 3.05 (± 0.120)	4.6 (5)

* If material is laminated to thickness, the tolerances are for the individual layers and not the overall thickness of the laminate. Laminate thicknesses are nominal.

Slit Material and Tape (PSA) Width Tolerances

NOMINAL WIDTH mm (inches)	TOLERANCE mm (inches)
0 - 76 (0 - 3)	± 1.60 (± 0.063)
> 76 - 203 (> 3 - 8)	± 2.40 (± 0.094)
> 203 - 305 (> 8 - 12)	± 3.18 (± 0.125)
> 305 - 610 (> 12 - 24)	± 4.78 (± 0.188)
> 610 - 914 (> 24 - 36)	+ 25.4, - 0.0 (1.0, - 0.0)
> 914 (> 36)	+ 25.4, - 0.0 (1.0, - 0.0)

VALUE ADDED OFFERINGS

- Adhesive (PSA) lamination:
 - Standard acrylic
- Slit tapes/strippings
- Hot post-cures
- Custom Colors

PRODUCT SPECIFICATIONS

AMS 3195 (Medium Grade)

Certified with deviation on density for thickness of
≥ 6.4mm (0.250) to 43.2 PCF (0.020 lbs/in³)

AMS 3196 (Firm Grade)

Notes:

- All metric conversions are approximate. Reference US customary units for official values and tolerances.
- Additional technical information and product specifications are available upon request.
- Typical values should not be used for specification limits.