



## TECHNICAL DATA SHEET

### Cellular Silicone Elastomer – Extrusions & Sheeting

#### Grades: SE-AMS 3195 & SE-AMS 3196

#### Temperature Range: -103°F to 401°F

### AVAILABILITY

These grades of cellular silicone elastomers have been specially formulated to meet the SAE AMS 3195E and AMS 3196F specifications. The range is available as sheeting, profile extrusions, jointed rings, self-adhesive backed, strip and punchings. They are particularly suited to use in applications that require a closed-cell sponge rubber that remains flexible over a wide temperature range. There is a full range of standard colours available and Silicone Engineering has the capability to colour match to customer requirements. Sheeting is available in a standard width of 3 foot; other widths can be produced upon request.

### SPECIFICATIONS

SAE AMS 3195E Sponge, Silicone Rubber Closed Cell, Medium

SAE AMS 3196F Sponge, Silicone Rubber Closed Cell, Firm

These products meet the flammability requirements of FAR 25/JAR 25/CS 25 Appendix F, Part 1, (a)(1)(iv) and (a)(1)(v) horizontal flammability tests.

### GENERAL CHARACTERISTICS FOR SILICONE RUBBER

Limiting Oxygen Index	23.2 %	BS 2872 Part 1
Radiation Resistance	>10 <sup>5</sup> Grays (10 <sup>7</sup> Rads) typical	

#### **Environmental Resistance**

Silicone rubber products have an excellent resistance to ozone, oxidation, ultraviolet light, corona discharge, cosmic radiation, ionising radiation and weathering in general.

Silicone rubber products produce very low levels of toxic fume when burnt

Other grades of silicone rubber available from Silicone Engineering are:

- \* General Purpose Grades
- \* Cellular silicone Products
- \* High Temperature Grades
- \* High Tear Grades
- \* Flame Retardant Grades
- \* Low Combustion Hazard Grades

This wide range of grades and production capability in silicone rubber is only available from



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**MECHANICAL PROPERTIES**

Property	AMS 3195		AMS 3196		Test Method
	Specification Limits	Typical Value	Specification Limits	Typical Value	
Density (lb.in <sup>-3</sup> )	0.025 max	#0.019	0.030 max	*0.024	ASTM D1056 < 0.25"
Compression Stress (psi) 25% strain	0.020 max 6 – 14	0.010 7.3	0.025 max 12 –20	0.017 18.0	>0.25" ASTM D1056
Compression Set (%) 22 hours @ 212°F	60 max	3.8	60 max	5.7	ASTM D1056
Brittleness Temperature (°F)	-67 max	-112	-67 max	-112	ASTM D746

\*0.079" sample  
#0.118" sample