



PRODUCT NEWS

Auburn Manufacturing Co.
29 Stack St., Middletown, CT 06457
Phone (860) 346-6677 FAX (860) 346-1334
www.auburn-mfg.com
email:info@auburn-mfg.com

MATERIAL GUIDE

SOLID SILICONE RUBBER

CS30

General purpose, 30 duro.
Meets ZZ-R-765 CL. 2A & 2B.
Softest durometer available.
Especially formulated for maximum
elongation and low compression set.

CS40, CS50, CS60, & CS70

General purpose materials. Durometers
40, 50, 60, & 70 respectively. All will
meet ZZ-R-765 CL. 2A & 2B and AMS-3301,
AMS-3302, AMS-3303 & AMS-3304
respectively.

S50 (Black)

General purpose, 50 duro.
molded sheet. Meets
ZZ-R-765 CL. 2A & 2B and AMS-3302.

EC102

Electrically conductive solid silicone.
Carbon filled. Low amperage conductor;
shields against RF and EM interference;
protects against electrostatic discharge.

HS235

High strength, 30 duro. Excellent
tensile strength and tear
resistance. Tougher and more
resilient than general purpose
grades. Meets ZZ-R-765, CL. 3B.

HS275

High strength, 70 duro. Excellent
tensile strength and tear
resistance. Tougher and more
resilient than general purpose
grades. Meets ZZ-R-765, CL. 3B.

ES9855

Economical version of HS255 (not
listed). 50 duro, high strength
silicone.

TC100

Thermally conductive silicone.
Provides thermal and mechanical
protection to electronic devices.

PRESS PADS (Fiberglass Reinforced Silicone)

FR320

General purpose. Meets
AMS-3320. Has lubricating oil
resistance and excellent
compression set resistance.

FR442

Specially formulated for thermal
stability and long life under
extended dwell times. Resists
reversion, softening and outgasing
more than general purpose
material.

MATERIAL GUIDE

SILICONE SPONGE AND SILICONE FOAM

PRODUCT NO:	DESCRIPTION	AVAILABILITY
○ R70M General Purpose Medium Grade	The basic, general purpose closed cell silicone sponge - odorless, tasteless, non-toxic, non-corrosive, ozone and fungus resistant, high and low temperature resistant, excellent electrical properties, with low compression set and clean releasing surface. Smooth finish. Temperature range -100F to +500F. Meets AMS-3195, MIL-R-46089, and MIL-R-6130 TYPE 2, GRADE B & C.	.031" thru .500" <i>Closed Cell Sponge</i>
○ R70F General Purpose Firm Grade	A general purpose closed cell silicone sponge. Its firm density makes it a natural choice in applications where R70M proves to be too soft. Smooth finish. Temperature range -100F to +500F. Meets AMS-3196, MIL-R-46089, and MIL-R-6130 TYPE 2, GRADE B & C.	.031" thru .500" <i>Closed Cell Sponge</i>
○ R80M Low Compression Set Medium Grade	A closed cell silicone sponge especially formulated to have an extremely low compression set. Maintains resiliency even under extended compression. Smooth finish. Temperature range -100F to +500F. Meets AMS-3195, MIL-R-46089, and MIL-R-6130 TYPE 2, GRADE B & C.	.062" thru .500" <i>Closed Cell Sponge</i>
○ R80S Low Compression Set Soft Grade	A soft grade counterpart of R80M, designed specifically for extra low compression set, softness, compressibility and resiliency. Remarkably light, having a density of only 20 lbs/cf. Smooth finish. Temperature range -100F to +500F. Meets MIL-R-6130 TYPE 2, GR. B & C.	.062" thru .500" <i>Closed Cell Sponge</i>
○ R60M Flame Retardant Medium Grade	A flame retardant closed cell silicone sponge intended for use where a combination of dust sealing, weather sealing, vibration dampening and uniform cushioning must be maintained over a broader temperature range. Smooth finish. Meets UL-94HF-1, AMS-3195, MIL-R-46089, and MIL-R-6130 TYPE 2, GRADE B & C.	.062" thru .500" <i>Closed Cell Sponge</i>
○ R50M Fiberglass Reinforced Closed Cell Sponge	A closed cell silicone sponge with a fiberglass reinforcement. Has the compressibility of sponge plus dimensional stability in the x-y plane. The absence of stretch contributes to the consistent size and shape of die cut gaskets and eliminates outward extrusion under pressure. Smooth finish. Temperature range -100F to +500F.	.031" thru .500" <i>Closed Cell Sponge</i>
○ R404F Thermally Conductive Firm Grade	A closed cell silicone sponge designed for use where heat transfer is necessary such as between printed circuit boards and heat sinks, decal transfer or applying heat activated adhesives. Smooth finish. Temperature range -100F to +500F.	.062" thru .500" <i>Closed Cell Sponge</i>
○ SF12 Open Cell Foam Low Density, Flame Retardant	A flame retardant open cell silicone foam. Has a UL-94VO flame rating. Extremely light-weight, having a nominal density of only 12 lbs/cf. Can withstand a 2100F flame for more than ten minutes without burning, in thicknesses down to 3/8". Generates very little smoke and releases no toxic fumes.	.062" thru .500" <i>Open Cell Foam</i>

Closed cell sponges and foams can also be furnished with either a silicone or acrylic adhesive, protected by a peel off liner. The standard sheet size is 36" x 36", with smaller size sheets and strips available upon request. Other standard colors such as black, grey and white are also readily available. Gaskets, seals, cushions, pads, and washers will be diecut by Auburn in accordance with your designs and specifications.