

# AUBURN PRODUCT NEWS

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

## HT-800 Medium Cellular Silicone Foam

### Introduction:

HT-800 is a highly versatile, medium firmness silicone that offers the lightness of a foam along with the enhanced sealing capabilities of a traditional sponge rubber. It is used to seal or protect various outdoor communication, electronics, or lighting enclosures, while providing protection against wind-driven rain or fire. The material is also used to reduce shock or isolate vibration. Auburn silicone foams are available in various thicknesses and manufactured in roll form which can be easily converted into tapes, sheets or custom die cut gaskets.

### Features and Benefits:

- Excellent memory and low stress relaxation reduces maintenance costs associated with gasket failures due to compression set and softening.
- Resistance to ultraviolet light, ozone, extreme temperatures and flame enables Auburn silicone foams to perform consistently in all environments.
- Compact cell structure and unique formulation provides enhanced sealing performance with resistance to penetration of fine particles or wind-driven rain.
- Available in roll goods, slit tapes or custom die cut parts. All Auburn silicone foams are available either plain or with an adhesive backing applied to one or both surfaces.

### Applications:

- Environmental seals to protect against penetration of dust, moisture, air, or light into outdoor enclosures such as lighting fixtures, HVAC units or electronic cabinets.
- Vibration isolators in electronic components or transportation vehicles.
- Shock absorbing cushions, pads or gaskets.

### Typical Product Data Sheet

PROPERTY	TEST METHOD	TYPICAL VALUE
<b>Physical</b>		
Color		Black, Grey & Red
Thickness, Inches (mm) Tolerance		1/32 - 1/2 (0.8 – 12.7) See Reverse
Standard Width, Inch (mm)		36 (914)
Density, lb./ft <sup>3</sup> (kg/m <sup>3</sup> )	ASTM D 1056	22 (352)
Compression Force Deflection, psi (Kpa)	Force measured @ 25% Deflection ASTM D 1056	9.0 (62.0)
Compression Set, % Max.	ASTM D 1056 – Test D @ 158 F (70°C)	< 1
	ASTM D 1056 – Test D @ 212°F (100°C)	< 5
Tensile Strength, psi (kPa)	ASTM D 412	45 (310)
Elongation, %	ASTM D 412	80
<b>Flammability &amp; Outgassing</b>		
Flame Resistance	UL 94	Listed V-0 and HF-1
Flame Spread Index (Ls)	ASTM E 162	< 25
Smoke Density (Ds)	ASTM E 162 Tested @ 4.0 minutes	< 50
	Tested @ 1.5 minutes	< 20
Toxic Gas Emissions Rating	SMP-800C	Pass

# AUBURN HT-800 – MEDIUM CELLULAR SILICONE

## **NEW!** UL-Listed Silicone Foam Gasketing from Auburn. . .

PROPERTY	TEST METHOD	VALUE
<b>Environmental Properties</b>		
Water Absorbtion	Internal: 24 hrs @ room temp.	1.40 %
UV Resistance	SAE J-1960	No Degradation
Ozone Effect Rating	ASTM D1171	0 (No Cracks)
Corrosion Resistance	AMS-3568	Pass
Meets Requirements of FDA CFR 177.2600 for Food Contact		HT-800 Gray or Black
<b>Electrical and Thermal Properties</b>		
Dielectric Constant, K' ("DK")	ASTM D 150	1.42
Dielectric Strength, volts/mil	ASTM D149 Volts/mil	91
Dry Arc Resistance	ASTM D 495, Seconds	92
Volume Resistivity, ohm/cm	ASTM D257	10 <sup>14</sup>
Thermal Conductivity, (BTU-in./hr. ft <sup>2</sup> -F) W/m-K	ASTM C518	0.63 (0.09)
<b>Temperature Resistance</b>		
Low Temperature Flex @ -67° F (-55°C)	ASTM D 1056	Pass
Recommended use Temperature °F (°C)	SAE J-2236	-67 to 392 (-55 to 200)
Recommended Intermittent High Temperature Use °F (°C)	Internal	482 (250)

### Standard Thickness Tolerance

Standard Thickness		Tolerance (inches)
inches	mm	
1/32	0.031	± 0.015
1/16	0.062	± 0.020
3/32	0.093	± 0.020
1/8	0.125	± 0.025
3/16	0.188	± 0.025
1/4	0.250	± 0.030
3/8	0.375	± 0.045
1/2	0.500	± 0.050

### Width Tolerance (Cellular)

Nominal Width (Inches)	Tolerances (w/o PSA)	Tolerance (with PSA)
0 < T ≤ 3	± 0.063	± 0.031
3 < T ≤ 8	± 0.094	± 0.031
8 < T ≤ 12	± 0.125	± 0.031
12 < T ≤ 18	± 0.188	± 0.031
18 < T ≤ 26	± 0.219	± 0.063
26 < T ≤ 36	± 0.250	± 0.063

#### Notes:

- 1) All metric conversations are approximate.
- 2) Additional Technical Information is available.
- 3) Typical values are a representation of an average value for the population of the property. For specification values contact Auburn Manufacturing Company

The Information contained in this data sheet is intended to assist you in designing with Flame Retardant Silicone Foams from Auburn. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown on the data sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Flame Retardant Silicone Foams from Auburn for each application.