

AUBURN PRODUCT NEWS

Auburn Manufacturing Company
 29 Stack Street, Middletown, CT 06457
Customer Service: (800) 427-5387
 Tel: (860) 346-6677 Fax: (860) 346-1334
 Email: info@auburn-mfg.com Website: www.auburn-mfg.com

NEW BF-2000 – ULTRA SOFT SILICONE FROM AUBURN

BF-2000 Ultra Soft is a highly compressible silicone foam. The combination of low weight and softness makes this flame retardant foam ideal for transportation, industrial, and electronics applications where low closure force and dust sealing are critical. Auburn silicones are available in various thicknesses and manufactured in roll forms and sheet forms that can be further die cut into gaskets to proper dimensions.

Features and Benefits

- Ultra low softness allows designers to use less force to seal enclosures and still protect their devices from the environment.
- High compressibility allows material to conform to variable width gaps, thereby allowing more design flexibility.
- 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 consistent performance in all environments.
- Available with adhesive backings of silicone type or acrylic type.

Applications

- Vibration insulation in electronic components and transportation vehicles.
 - Low closure force gaskets within portable electronics such as laptops and LCD screens within aircraft and rail interiors.
- Fire retardant thermal insulation.

Installation

Available with a pressure-sensitive on one or two sides to allow easy application to a variety of surfaces.

Typical Product Data Sheet

PROPERTY		TEST METHOD	TYPICAL VALUE
PHYSICAL			
Color			Black
Thickness:	inches mm Tolerance		0.125 -0.500 (3.18-12.70) See Reverse
Standard Width, inches (mm)			0.500-36.0 (12.7-914)
Density, lb/ft ³ (kg/m ³)		ASTM D 1056	10.0 (160)
Compression Force Deflection, psi (kPa)		Force measured @ 25% Deflection ASTM D 1056	1.5 (10.3)
Compression Set, Typical		ASTM D 1056 Test D @ 158°F (70°C). 22 hrs	1%
		ASTM D 1056 Test D @ 212°F (100°C). 22 hrs	5 %
Tensile Strength, min psi (KPa)		ASTM D 412	25 (172)
Elongation, % min.		ASTM D 412	80
FLAMMABILITY & OUTGASSING			
Flame Resistance		UL 94	Listed V-0 and HF-1
Flame Spread Index (I_s)		ASTM E 162	<25
Smoke Density (D_s)		ASTM E 662 Tested @ 4.0 minutes	<50
		Tested @ 1.5 minutes	<20
Toxic Gas Emissions Rating		SMP-800C	Pass

Note: The technical information and data provided here should be considered representative or typical only and should not be used for specification purposes. User should evaluate this product to determine whether it is fit for a particular purpose and suitable for user's method of application.

BF-2000 – ULTRA SOFT SILICONE (continued)

Standard Thickness Tolerance			
Standard Thickness			Tolerance (Inches)
Inches	mm		
1/8	0.125	3.18	± 0.025
3/16	0.188	4.76	± 0.030
1/4	0.250	6.35	± 0.040
3/8	0.375	9.53	± 0.060
1/2	0.500	12.70	± 0.060

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

Notes:

1. All metric conversions are approximate.
2. Additional technical information is available.
3. Samples are available with or w/out adhesive