

## BISCO® BF-2000 – ULTRA SOFT SILICONE

BISCO® 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. BISCO Silicones are available in various thicknesses and manufactured in roll form to allow fabricators to easily convert the material to the proper dimensions.

### Features and Benefits

- Ultra low softness allows designers to use less force to seal enclosures and still protect their device 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 through distribution sites throughout North America, Europe, and Asia.

### Applications

- Vibration isolation 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 adhesive on one or two sides to allow easy application to a variety of surfaces.

BISCO® BF-2000		
Property	Test Method	Typical Value
<b>PHYSICAL</b>		
<b>Color</b>		Black
<b>Thickness</b> , inches (mm) <b>Tolerance</b>		0.125 - 0.500 (3.18 - 12.70) See Reverse
<b>Standard Width</b> , inches (mm)		0.500 - 36.0 (12.7 - 914)
<b>Density</b> , lb./ft <sup>3</sup> (kg/m <sup>3</sup> )	ASTM D 1056	10.0 (160)
<b>Compression Force Deflection</b> , psi (kPa)	Force measured @ 25% Deflection ASTM D 1056	1.5 (10.3)
<b>Compression Set</b> , 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%
<b>Tensile Strength</b> , min. psi (kPa)	ASTM D 412	25 (172)
<b>Elongation</b> , % min.	ASTM D 412	80
<b>FLAMMABILITY &amp; OUTGASSING</b>		
<b>Flame Resistance</b>	UL 94	Listed V-0 and HF-1
<b>Flame Spread Index (I<sub>s</sub>)</b>	ASTM E 162	<25
<b>Smoke Density (D<sub>s</sub>)</b>	ASTM E 662 Tested @ 4.0 minutes	<50
	Tested @ 1.5 minutes	<20
<b>Toxic Gas Emissions Rating</b>	SMP-800C	Pass

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## BISCO® 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. BF-2000 is a recently commercialized standard product that was previously recognized and sold under the BISCO EP-2022 product designation. All product features, properties, and formulations have remained intact in commercializing this Engineered Product (EP) to our BISCO Foam (BF) series.

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847-593-5630

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