

## BISCO® BF-2000 – Ultra Soft Silicone

BISCO® 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. 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, mm (inches)</b> <b>Tolerance</b>		3.18 - 12.70 (0.125 - 0.500) See Reverse
<b>Standard Width, mm (inches)</b>		12.7 - 914 (0.500 - 36.0)
<b>Density, kg/m<sup>3</sup> (lb./ft<sup>3</sup>)</b>	ASTM D 1056	160 (10.0)
<b>Compression Force Deflection, kPa (psi)</b>	Force measured @ 25% Deflection ASTM D 1056	13.8 (2.5 Max)
<b>Compression Set, Typical</b>	ASTM D 1056 Test D @ 70°C (158°F), 22 hrs	1%
	ASTM D 1056 Test D @ 100°C (212°F), 22 hrs	5%
<b>Tensile Strength, min. kPa (psi)</b>	ASTM D 412	172 (25)
<b>Elongation, % min.</b>	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
<b>Recommended Use Temperature, °C (°F)</b>	Internal	-55° to 200° (-67° to 392°)

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## BISCO® BF-2000 – Ultra Soft Silicone (continued)

### Standard Thickness Tolerance

Standard Thickness			Tolerance (Inches)	
mm	Inches		mm	inches
3.18	1/8	0.125	±0.635	± 0.025
4.76	3/16	0.188	±0.762	± 0.030
6.35	1/4	0.250	±1.016	± 0.040
9.53	3/8	0.375	±1.524	± 0.060
12.70	1/2	0.500	±1.524	± 0.060

### Width Tolerance (Cellular)

Nominal Width		Tolerance (w/o PSA)		Tolerance (with PSA)			
mm	inches	mm	inches	mm	inches		
0 < T ≤ 76		0 < T ≤ 3		±1.60	± 0.063	± 0.787	± 0.031
76 < T ≤ 203		3 < T ≤ 8		±2.39	± 0.094	± 0.787	± 0.031
203 < T ≤ 305		8 < T ≤ 12		±3.18	± 0.125	± 0.787	± 0.031
305 < T ≤ 457		12 < T ≤ 18		±4.78	± 0.188	± 0.787	± 0.031
457 < T ≤ 660		18 < T ≤ 26		±5.56	± 0.219	± 1.600	± 0.063
660 < T ≤ 914		26 < T ≤ 36		±6.35	± 0.250	± 1.600	± 0.063

1. All metric conversions are approximate.
2. Additional technical information is available.
3. Typical values should not be used for specification limits.

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