ROGERS CORPORATION

BISCO® Silicones

mason grogan INDUSTRIAL
SPECIALIST MATERIALS FOR DESIGN ENGINEERS

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**
PHYSICAL		
Color		Black
Thickness, mm (inches) **Tolerance**		3.18 - 12.70 (0.125 - 0.500) See Reverse
Standard Width, mm (inches)		12.7 - 914 (0.500 - 36.0)
Density, kg/m^3 (lb./ft^3)	ASTM D 1056	160 (10.0)
Compression Force Deflection, kPa (psi)	Force measured @ 25% Deflection ASTM D 1056	13.8 (2.5 Max)
Compression Set, Typical	ASTM D 1056 Test D @ 70°C (158°F), 22 hrs ASTM D 1056 Test D @ 100°C (212°F), 22 hrs	1% 5%
Tensile Strength, min. kPa (psi)	ASTM D 412	172 (25)
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 Tested @ 1.5 minutes	 <50 <20
Toxic Gas Emissions Rating	SMP-800C	Pass
Recommended Use Temperature, °C (°F)	Internal	-55° to 200° (-67° to 392°)

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
$0 < T \leq 76$	$0 < T \leq 3$	±1.60	± 0.063	± 0.787	± 0.031
$76 < T \leq 203$	$3 < T \leq 8$	±2.39	± 0.094	± 0.787	± 0.031
$203 < T \leq 305$	$8 < T \leq 12$	±3.18	± 0.125	± 0.787	± 0.031
$305 < T \leq 457$	$12 < T \leq 18$	±4.78	± 0.188	± 0.787	± 0.031
$457 < T \leq 660$	$18 < T \leq 26$	±5.56	± 0.219	± 1.600	± 0.063
$660 < T \leq 914$	$26 < T \leq 36$	±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.

For more information please contact Mason Grogan Industrial

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