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ROGERS CORPORATION

BISCO® Silicones

Typical Product Properties

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**
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./ft³ (kg/m³)	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 ASTM D 1056 Test D @ 212°F (100°C), 22 hrs	1% 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 Tested @ 1.5 minutes	 <50 <20
Toxic Gas Emissions Rating	SMP-800C	Pass

Please see reverse for additional data.

BISCO® BF-2000 – ULTRA SOFT SILICONE (continued)

Standard Thickness Tolerance

Standard Thickness			Tolerance (Inches)
Inches		mm	
1/16	0.062	1.57	± 0.020
3/32	0.094	2.39	± 0.020
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
3/4	0.750	19.05	± 0.090
1	1.000	25.40	± 0.090

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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