

## BISCO® BF-2000

BISCO<sup>®</sup> BF-2000 is a highly compressible, ultra soft silicone foam. The combination of low weight and softness makes it an ideal choice where low closure force and sealing are critical.

Features & Benefits, applicable to all BISCO® Cellular Materials (Foams):

- Patented chemistry and cell structure provide long term performance advantage
- Temperature independency
- UV/ Ozone resistant
- Rated to most stringent flame standards

PROPERTY	TEST METHOD	TYPICAL VALUE	SPECIFICATION
PHYSICAL			
Color	Visual	Black	
Thickness, mm (inches)	Internal	3.18 - 12.70 (0.125 - 0.500)	
Density, kg/m <sup>3</sup> (lb./ft <sup>2</sup> )	Internal	175 (11)	Max 200 (12.5)
Compression Force Deflection, kPa (psi)	ASTM D1056 25% Deflection	10 (1.5)	0 - 17 (0 - 2.5)
Tensile Strength, kPa (psi)	ASTM D412		140 (20)
Elongation, % min	ASTM D412		60
Compression Set, %	ASTM D1056 100°C (212°F), 22 hrs @ 50%	6.9	< 12

PROPERTY	TEST METHOD	TYPICAL VALUE	SPECIFICATION
FLAMMABILITY PROPERTIES			
Flame Resistance	UL 94 (File E83967) V-0 ; HF-1		Meets
Flame Spread Index (Is)	ASTM E162 Flaming Mode < 35		Meets
Smoke Density (Ds)	ASTM E662 Flaming Mode @ 1.5 min, < 100 Flaming Mode @ 4.0 min, < 200		Meets
Burn Length	FMVSS 302 < 100 mm/min		Meets



The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers BISCO products for each application. The Rogers logo, BISCO, and the BISCO logo are trademarks of Rogers Corporation or one of its subsidiaries. © 2003, 2006, 2009, 2017, 2019 Rogers Corporation. All rights reserved. 1019-PDF • Publication #180-049



PROPERTY	TEST METHOD	TYPICAL VALUE	SPECIFICATION
THERMAL PROPERTIES			
Temperature Range, °C (°F)	Internal		-55 to +200 (-67 to +392)
Thermal Conductivity, W/m ºK	ASTM D518		0.048
Low Temperature Flex	ASTM D1056 -55°C (-67°F)		Pass
Low Temperature Brittleness	ASTM D746 -55°C (-67°F)		Pass

## **Standard Thickness Tolerances**

NOMINAL THICKNESS	TOLERANCE
mm (inches)	mm (inches)
3.18 (0.125)	± 0.762 (± 0.030)
4.78 (0.188)	± 0.762 (± 0.030)
6.35	± 1.016
(0.250)	(± 0.040)
9.53	± 1.524
(0.375)	(± 0.060)
12.70	± 1.524
(0.500)	(± 0.060)

## Slit Material and Tape (PSA) Width Tolerances

NOMINAL WIDTH	TOLERANCE
mm (inches)	mm (inches)
> 0 - 76	± 1.60
(> 0 - 3)	(± 0.063)
> 76 - 203	± 2.39
(> 3 - 8)	(± 0.094)
> 203 - 305	± 3.18
(> 8 - 12)	(± 0.125)
> 305 - 457	± 4.78
(> 12 - 18)	(± 0.188)
> 457 - 660	± 5.56
(> 18 - 26)	(± 0.219)
> 660 - 914	+ 25.4/- 0
(> 26 - 36)	(+ 1/- 0)

## VALUE ADDED OFFERINGS

- Adhesive (PSA) lamination
- Slit material/tapes

Notes:

- All metric conversions are approximate. Reference US customary units for official values and tolerances.
- Additional technical information is available.
- Values should not be used for specification limits.



The information contained in this Data Sheet is intended to assist you in designing with Rogers' Elastomeric Material Solutions. It is not intended to and does not create any warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose or that the results shown in this Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers BISCO products for each application. The Rogers logo, BISCO, and the BISCO logo are trademarks of Rogers Corporation or one of its subsidiaries. © 2003, 2006, 2009,2017, 2019 Rogers Corporation. All rights reserved. 1019-PDF - Publication #180-049