

## BISCO® BF-1000

BISCO<sup>®</sup> BF-1000 is a highly compressible, soft silicone foam. The combination of low weight and softness makes it an ideal solution 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	White, Gray, Black	
Thickness, mm (inches)	Internal	1.59 - 25.40 (0.063 - 1.000)	
Density, kg/m <sup>3</sup> (lb./ft <sup>2</sup> )	Internal	192 (12)	1.56 - 287 (9.8 - 17.9)
Compression Force Deflection, kPa (psi)	ASTM D1056 25% Deflection	16.5 (2.4)	0 - 35 (1 - 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%	1.7	< 5

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



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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		0.054
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)
1.59	± 0.381
(0.063)	(± 0.015)
2.38	± 0.508
(0.094)	(± 0.020)
3.18	± 0.508
(0.125)	(± 0.020)
4.76	± 0.762
(0.188)	(± 0.030)
6.35	± 1.016
(0.250)	(± 0.040)
9.53	± 1.524
(0.375)	(± 0.060)
12.70	± 1.270
(0.500)	(± 0.050)
15.88	± 1.524
(0.625)	(± 0.060)
19.05	± 2.286
(0.750)	(± 0.090)
25.40	± 2.286
(1.000)	(± 0.090)

## 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.



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