

BISCO® BF-1000

BISCO® 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 ³ (lb./ft ²)	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

PROPERTY	TEST METHOD	TYPICAL VALUE	SPECIFICATION
THERMAL PROPERTIES			
Temperature Range, °C (°F)	Internal	---	-55 to +200 (-67 to +392)
Thermal Conductivity, W/m °K	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 (0.063)	± 0.381 (± 0.015)
2.38 (0.094)	± 0.508 (± 0.020)
3.18 (0.125)	± 0.508 (± 0.020)
4.76 (0.188)	± 0.762 (± 0.030)
6.35 (0.250)	± 1.016 (± 0.040)
9.53 (0.375)	± 1.524 (± 0.060)
12.70 (0.500)	± 1.270 (± 0.050)
15.88 (0.625)	± 1.524 (± 0.060)
19.05 (0.750)	± 2.286 (± 0.090)
25.40 (1.000)	± 2.286 (± 0.090)

Slit Material and Tape (PSA) Width Tolerances

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