

BISCO® HT-870

A firmer and denser version of BF-1000, BISCO® HT-870 medium soft silicone foam maintains the low closure force and conformability characteristic of its soft counterparts, BF-2000 and BF-1000, while simultaneously exhibiting enhanced sealing capabilities.

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, Red	---
Thickness, mm (inches)	Internal	1.59 - 12.70 (0.063 - 0.500)	---
Density, kg/m ³ (lb./ft ²)	Internal	240 (15)	215 - 327 (13.4 - 20.4)
Compression Force Deflection, kPa (psi)	ASTM D1056 25% Deflection	26 (3.8)	7 - 48 (1 - 7)
Tensile Strength, kPa (psi)	ASTM D412	---	240 (35)
Elongation, % min	ASTM D412	---	20
Compression Set, %	ASTM D1056 100°C (212°F), 22 hrs @ 50%	1.6	< 10

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	---	0.06
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)
1.60 (0.063)	± 0.508 (± 0.020)
2.39 (0.094)	± 0.508 (± 0.020)
3.18 (0.125)	± 0.635 (± 0.025)
4.78 (0.188)	± 0.635 (± 0.025)
6.35 (0.250)	± 0.762 (± 0.030)
9.53 (0.375)	± 1.143 (± 0.045)
12.70 (0.500)	± 1.270 (± 0.050)

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.