Argent

bisco®
TRUSTED TO THE EXTREME

BISCO® HT-840

BISCO® HT-840 extra firm exhibits enhanced sealing capabilities, with comparable tear and tensile strength of a traditional sponge rubber.

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	Gray	---
Thickness, mm (inches)	Internal	1.59 - 6.35 (0.063 - 0.250)	---
Density, kg/m^3 (lb./ft^2)	Internal	448 (28)	369 - 553 (23.7 - 34.5)
Compression Force Deflection, kPa (psi)	ASTM D1056 25% Deflection	142 (20.6)	110 - 179 (16 - 26)
Tensile Strength, kPa (psi)	ASTM D412	---	240 (35)
Elongation, % min	ASTM D412	---	45
Compression Set, %	ASTM D1056 100°C (212°F)	1.8	< 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

ROGERS CORPORATION

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. © 2016, 2019 Rogers Corporation. All rights reserved.
1019-PDF • Publication #180-321

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	---	0.09
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)	± 0.508 (± 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)

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.

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. © 2016, 2019 Rogers Corporation. All rights reserved.
1019-PDF • Publication #180-321