

BISCO® HT-840 Extra Firm Silicone Foam

BISCO® HT-840 extra firm silicone foam exhibits enhanced sealing capabilities comparable to sponge rubber. It's designed for use in enclosures requiring a durable, high closure force gasket. Patented chemistry and cell structure provide a long-term performance advantage.

Features & Benefits:

- Enhanced durability and sealing performance
- High tear and tensile strength comparable to a traditional sponge rubber
- Resistance to UV, ozone, and extreme temperatures for consistent performance across many environments
- Rated to most stringent UL flame standards

TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
Visual	Gray	
Internal	1.60 - 6.35 (0.063 - 0.250)	See "Width Tolerance" table
Internal	448 (28)	369 - 553 (23.7 - 34.5)
ASTM D1056	142 (20.6)	110 - 179 (16 - 26)
ASTM D1056 100°C (212°F) / 22 hrs / 50%	1.8	< 5
Internal 2" below water surface / 24 hrs / change in weight	0.5	< 5
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UL 94 (File E83967)	Meets	V-0
ASTM E162	Meets	Flaming Mode < 35
ASTM E662	Meets	Flaming Mode, 1.5 min, < 100 Flaming Mode, 4.0 min, < 200
FMVSS 302	Meets	< 100 mm/min
Internal	-55 to +200 (-67 to +392)	
ASTM C518	0.09	
ASTM D1056 -55°C (-67°F) / 5 hrs	Pass	
ASTM D746 -55°C (-67°F) / 3 min	Pass	
	Visual Internal Internal ASTM D1056 ASTM D1056 100°C (212°F) / 22 hrs / 50% Internal 2" below water surface / 24 hrs / change in weight UL 94 (File E83967) ASTM E162 ASTM E662 FMVSS 302 Internal ASTM C518 ASTM D1056 -55°C (-67°F) / 5 hrs ASTM D746	Visual Gray Internal 1.60 - 6.35 (0.063 - 0.250) Internal 448 (28) ASTM D1056 142 (20.6) ASTM D1056 (20.6) 1.8 100°C (212°F) / 22 hrs / 50% 1.8 Internal 2" below water surface / 24 hrs / change in weight 0.5 UL 94 (File E83967) Meets ASTM E162 Meets FMVSS 302 Meets Internal -55 to +200 (-67 to +392) ASTM C518 0.09 ASTM D1056 (-55°C (-67°F) / 5 hrs Pass ASTM D746 Pass





PROPERTY	TEST METHOD	TYPICAL VALUE*	SPECIFICATION**
OUTGASSING			
Total Mass Loss (%)	ASTM E595 (4x10* -6 Torr)	2.08	
Collected Volatile Condesible Materials (CVCM) (%)	ASTM E595 (4x10* -6 Torr)	0.57	
Water Vapor Regain (%)	ASTM E595 (4x10* -6 Torr)	0.01	
ELECTRIC			
Dielectric Strength, Volts/mil	ASTM D149	57	
Dielectric Constant, 1 kHz	ASTM D150	1.8	
Dissipation Factor, 1 kHz	ASTM D495	0.006	
Dry Arc Resistance, Seconds	ASTM D495	149	
Volume Resistivity, Ohm-cm	ASTM D257	10^14	

Standard Thickness Tolerances

NOMINAL THICKNESS	TOLERANCE
mm (inches)	mm (inches)
1.60	± 0.508
(0.063)	(± 0.020)
2.39	± 0.508
(0.094)	(± 0.020)
3.18	± 0.635
(0.125)	(± 0.025)
4.78	± 0.635
(0.188)	(± 0.025)
6.35	± 0.762
(0.250)	(± 0.030)

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:

*Typical Value- Value is based on historical data. Please note the frequency of testing varies.

**Specification- Applies to physical properties only, which are based on Rogers' internal benchmark and standard BISCO specification values. Additional industry specifications are available as well. All other properties are based on industry standard guidelines.

For more information and to request a sample, please contact our team of experts at solutions@rogerscorp.com

