



Typical Product Properties

★: www.seconrubber.com

HT-840 is an extra-firm grade silicone foam that offers improved durability and sealing. It is used to seal and protect various outdoor communication, lighting, and electronic enclosures from small dust particles, wind driven rain, and fire. It offers a higher tear and tensile strength than our lighter grade foams. BISCO® Silicones are available in various

thicknesses and manufactured in roll form to allow fabricators to easily convert the material to the proper dimensions.

BISCO® HT-840 – Extra Firm Cellular Silicone

Features and Benefits

- Excellent memory and low stress relaxation reduces maintenance costs associated with gasket failures due to compression set and softening.
- Resistance to ultraviolet light, ozone, extreme temperatures, and flame enables consistent performance in all environments.
- Compact cell structure provides improved sealing performance.
- Available through distribution sites throughout North America, Europe, and Asia.

Applications

- Environmental seals to protect against penetration of dust, moisture, air, or light within outdoor enclosures such as lighting fixtures, HVAC units, and electronic cabinets
- Enclosures requiring a more durable, high closure force gasket.
- Press pads requiring greater conformability and even pressure distribution at high temperatures

Installation

 Available with a pressure-sensitive adhesive on one or two sides to allow easy application to a variety of surfaces.

BISCO® HT-840					
Property	Test Method	Typical Value			
PHYSICAL					
Color		Gray			
Thickness, mm (inches) Tolerance		1.6 - 6.4 (1/16 to 1/4) See Reverse			
Standard Width, mm (inches)		449 (28)			
Density , kg/m³ (lb./ft³)	ASTM D 1056	432 (27)			
Compression Force Deflection, kPa (psi)	Force measured @ 25% Deflection ASTM D 1056	151.7 (22)			
Compression Set, % max.	ASTM D 1056 Test D @ 70°C (158°F) ASTM D 1056 Test D @ 100°C (212°F)	< 1			
Tensile Strength, kPa (psi)	ASTM D 412	414 (60)			
Elongation, %	ASTM D 412	60			
FLAMMABILITY & OUT	GASSING				
Flame Resistance	UL 94	Listed V-0 and HF-1			
Flame Spread Index (Ls)	ASTM E 162	< 25			
Smoke Density (D ₅)	ASTM E 662				
	Tested @ 4.0 minutes	< 50			
	Tested @ 1.5 minutes	< 20			
Toxic Gas Emissions Rating	SMP-800C	Pass			

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BISCO® HT-840 – Extra Firm Cellular Silicone (continued)

PROPERTY	TEST METHOD	VALUE			
ENVIRONMENTAL PROPERTIES					
Water Absorption	Internal: 24 hrs @ room temp.	0.20 %			
UV Resistance	SAE J - 1960	No Degradation			
Ozone Effect Rating	ASTM D 1171	0 (No Cracks)			
Corrosion Resistance	AMS - 3568	Pass			
ELECTRICAL & THERMAL PROPERTIES					
Dielectric Constant	ASTM D 150	1.58			
Dielectric Strength	ASTM D 149, Volts/mil	95			
Dry Arc Resistance	ASTM D 495, Seconds	98			
Volume Resistivity, Ohm - cm	ASTM D 257	10 ¹⁴			
Thermal Conductivity,	ASTM C 518	0.12 (0.84)			
BTU w/m °K (in/hr/ft²/°F)					
TEMPERATURE RESISTANCE					
Low Temperature Flex at -55°C (-67°F)	ASTM D 1056	Pass			
Recommended Use Temperature, °C (°F)	Internal	-55° to 200° (-67° to 392°)			

Standard Thickness Tolerance

Standard Thickness			Tolerance
Inc	hes	mm	(Inches)
1/16	0.063	1.60	± 0.020
3/32	0.094	2.39	± 0.020
1/8	0.125	3.18	± 0.025
3/16	0.188	4.76	± 0.025
1/4	0.250	6.35	± 0.040

Width Tolerance (Cellular)

Nominal Width (Inches)	Tolerance (w/o PSA)	Tolerance (with PSA)
0 < T <u><</u> 3	± 0.063	± 0.031
3 < T <u><</u> 8	± 0.094	± 0.031
8 < T <u><</u> 12	± 0.125	± 0.031
12 < T <u><</u> 18	± 0.188	± 0.031
18 < T <u><</u> 26	± 0.219	± 0.063
26 < T <u><</u> 36	± 0.250	± 0.063

Notes:

- 1. All metric conversions are approximate.
- 2. Additional technical information is available.
- 3. Typical values are a representation of an average value for the population of the property. For specification values contact Rogers Corporation.

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