



BISCO® BF-2000 ULTRA SOFT SILICONE



BISCO® BF-2000 Ultra Soft is a highly compressible silicone foam. The combination of low weight and softness makes this flame retardant foam ideal for transportation, industrial, and electronics applications where low closure force and dust sealing are critical.

BISCO® Silicones are available in various thicknesses giving Modus Advanced, Inc. the ability to manufacture cut parts to your most stringent dimension specifications.

PROPERTY TEST METHOD TYPICAL VALUE

PHYSICAL			
Color			Black
Thickness,	inches (mm) Tolerance		0.125 - 0.500 (3.18 - 12.70) See Reverse
Standard Width,	inches (mm)		0.500 - 36.0 (12.7 - 914)
Density, lb./ft³ (kg	/m³)	ASTM D 1056	10.0 (160)
Compression Ford Deflection, psi (kP		Force measured @ 25% Deflection ASTM D 1056	1.5 (10.3)
Compression Set, Typical		ASTM D 1056 Test D @ 158°F (70°C), 22 hrs.	1%
		ASTM D 1056 Test D @ 212°F (100°C), 22 hrs.	5%
Tensile Strength, min. psi (kPa)		ASTM D 412	25 (172)
Elongation, %		ASTM D 412	80
FLAMMABILITY & OUTGASSING			
Flame Resistance		UL 94	Listed V-0 and HF-1
Flame Spread Index (L _s)		ASTM E 162	< 25
		ASTM E 662	
Smoke Density (D	s)	Tested @ 4.0 minutes	< 50
		Tested @ 1.5 minutes	< 20
Toxic Gas Emissions Rating		SMP-800C	Pass

FEATURES AND BENEFITS

- Ultra low softness allows designers to use less force to seal enclosures and still protect their device from the environment.
- High compressibility allows material to conform to variable width gaps, thereby allowing more design flexibility.
- 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.

APPLICATIONS

- Vibration isolation in electronic components and transportation vehicles
- Low closure force gaskets within portable electronics such as laptops and LCD screens within aircraft and rail interiors
- Fire retardant thermal insulation

INSTALLATION

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















BISCO® BF-2000 ULTRA SOFT SILICONE

STANDARD THICKNESS TOLERANCE			
STAN	TOLERANCE (INCHES)		
INCHES MM			
1/8	0.125	3.18	± 0.025
3/16	0.188	4.76	± 0.030
1/4	0.250	6.35	± 0.040
3/8	0.375	9.53	± 0.060
1/2	0.500	12.70	± 0.060

WIDTH TOLERANCE (CELLULAR)			
NOMINAL WIDTH (INCHES)	TOLERANCE (W/O PSA)	TOLERANCE (WITH PSA)	
0 < T ≤ 3	± 0.063	± 0.031	
3 < T ≤ 8	± 0.094	± 0.031	
8 < T ≤ 12	± 0.125	± 0.031	
12 < T ≤ 18	± 0.188	± 0.031	
18 < T ≤ 26	± 0.219	± 0.063	
26 < T ≤ 36	± 0.250	± 0.063	

Notes:

- 1. All metric conversions are approximate.
- 2. Additional technical information is available.
- 3. BF-2000 is a recently commercialized standard product that was previously recognized and sold under the BISCO EP-2022 product designation. All product features, properties, and formulations have remained intact in commercializing this Engineered Product (EP) to our BISCO Foam (BF) series.

The information contained in this Data Sheet is intended to assist you in designing with Rogers' High Performance Foams. 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 on the Data Sheet will be achieved by a user for a particular purpose. The user should determine the suitability of Rogers' High Performance Foams for each application.

CUSTOMERS ALSO SEARCHED:			
Bisco	Urethane foam gaskets	Poron urethane foam	
Silicone	Cellular urethane	What is Poron	
Silicone sponge	LCD Gaskets	Poron material	
Silicone gaskets	Low outgassing	Poron foam	
Silicone sponge gasket	UL 94HBF gasket	Poron gasket	
Silicone foam	UL 94 V-0	Poron sheet	
Poron	Water sealing	Closed cell foam	
Microcellular	RoHS		
Microcellular urethane	LED gasket		

We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer that converts EMI Shielding, Environmental Gasket Materials, Microwave Absorbers, Acoustic Materials, Thermal Interface Materials and other high performance materials into finished parts. Modus utilizes its 40 years as an established provider of high quality, reliable products to create precisely what customers specify. Innovative processes; custom fabrication utilizing performance materials; an on time delivery record of more than 99% means Modus is well positioned to help your company succeed.

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BISCO® BF-1000 EXTRA SOFT CELLULAR SILICONE



Compressibility, softness, and durability allow BF-1000 to adapt to various environments, making it an ideal choice for sealing outdoor enclosures, protecting electronics from shock and heat, and providing cushioning or vibration isolation for various applications.

BISCO® Silicones are available in various thicknesses giving Modus Advanced, Inc. the ability to manufacture cut parts to your most stringent dimension specifications.

PROPERTY TEST METHOD TYPICAL VALUE

PHYSICAL			
Color			Gray* & White
Thickness,	inches (mm) Tolerance		0.062 - 1.00 (1.6 - 25.4) See Reverse
Standard Width,	inches (mm)		36 (914)
Density, lb./ft³ (kg	/m³)	ASTM D 1056	13 (208)
Compression Force Deflection, psi (kP		Force measured @ 25% Deflection ASTM D 1056	3 (20.7)
Compression Set, % max.		ASTM D 1056 Test D @ 158°F (70°C), 22 hrs.	< 1
		ASTM D 1056 Test D @ 212°F (100°C), 22 hrs.	< 5
Tensile Strength, psi (kPa)		ASTM D 412	35 (241)
Elongation, %		ASTM D 412	90
FLAMMABILITY 8	Q OUTGASSIN	G	
Flame Resistance		UL 94	Listed V-0 and HF-1
Flame Spread Inde	ex (L _s)	ASTM E 162	< 35
		ASTM E 662	
Smoke Density (D	s)	Tested @ 4.0 minutes	< 50
		Tested @ 1.5 minutes	< 20
Toxic Gas Emissions Rating		SMP-800C & BSS 7239	Pass

 $^{^{\}ast}$ Gray color is standard in 0.062 (1.9mm), 0.250 (6.4mm) and 0.500 (12.7mm) thicknesses.

FEATURES AND BENEFITS

- Excellent memory and low stress relaxation reduces maintenance costs associated with gasket failures due to compression set and softening.
- Softness allows designers to use less force to seal enclosures and still protect their device from the environment.
- High compressibility allows material to conform to variable width gaps and awkward shapes, thereby allowing engineers more design flexibility.
- Resistance to ultraviolet light, ozone, extreme temperatures, and flame enables consistent performance in all environments.

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
- Vibration isolation in electronic components and transportation vehicles
- · Fire retardant thermal insulation

INSTALLATION

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















BISCO® BF-1000 EXTRA SOFT CELLULAR SILICONE

PROPERTY	TEST METHOD	VALUE	
ENVIRONMENTAL PROPERTIES			
Water Absorption	Internal: 24 hrs @ room temp.	3.50%	
UV Resistance	SAE J - 1960	No Degradation	
Ozone Effect Rating	ASTM D 1171	0 (No Cracks)	
Corrosion Resistance	AMS - 3568	Pass	
Meets Requirements of FDA CF	R 177.2600 for Food Contact	BF-1000 White	
Other Specifications Available	BMS 1-68		
ELECTRICAL & THERMAL PROF	PERTIES		
Dielectric Constant	ASTM D 150	1.34	
Dielectric Strength	ASTM D 149, Volts/mil	89	
Dry Arc Resistance	ASTM D 495, Seconds	90	
Volume Resistivity, Ohm - cm	ASTM D 257	10 ¹⁴	
Thermal Conductivity, BTU in/hr/ft² /°F (w/m °K)	ASTM D 518	0.39 (0.06)	
TEMPERATURE RESISTANCE			
Low Temperature Flex at -67°F (-55°C)	ASTM D 1056	Pass	
Recommended Use Temperature, °F (°C)	SAE J-2236	-67 to 392 (-55 to 200)	

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Internal

CUSTOMERS ALSO SEARCHED:			
Bisco	Urethane foam gaskets	Poron urethane foam	
Silicone	Cellular urethane	What is Poron	
Silicone sponge	LCD Gaskets	Poron material	
Silicone gaskets	Low outgassing	Poron foam	
Silicone sponge gasket	UL 94HBF gasket	Poron gasket	
Silicone foam	UL 94 V-0	Poron sheet	
Poron	Water sealing	Closed cell foam	
Microcellular	RoHS		
Microcellular urethane	LED gasket		

Recommended Intermittent

High Temperature Use, °F (°C)

STANDARD THICKNESS TOLERANCE			
STAN	TOLERANCE		
INC	HES	ММ	(INCHES)
1/16	0.062	1.57	± 0.016
3/32	0.094	2.39	± 0.020
1/8	0.125	3.18	± 0.025
3/16	0.188	4.76	± 0.030
1/4	0.250	6.35	± 0.040
3/8	0.375	9.53	± 0.060
1/2	0.500	12.70	± 0.050
3/4	0.750	19.05	± 0.090
1	1.000	25.40	± 0.090

WIDTH TOLERANCE (CELLULAR)			
NOMINAL WIDTH (INCHES)	TOLERANCE (W/O PSA)	TOLERANCE (WITH PSA)	
0 < T ≤ 3	± 0.063	± 0.031	
3 < T ≤ 8	± 0.094	± 0.031	
8 < T ≤ 12	± 0.125	± 0.031	
12 < T ≤ 18	± 0.188	± 0.031	
18 < T ≤ 26	± 0.219	± 0.063	
26 < T ≤ 36	± 0.250	± 0.063	

Notes:

482 (250)

- 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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ABOUT MODUS





BISCO® HT-870 SOFT CELLULAR SILICONE



Compressibility, softness, and durability allow BISCO® HT-870 to adapt to various environments, making it an ideal choice for sealing outdoor enclosures, protecting electronics from shock and heat, and providing cushioning or vibration isolation for various applications.

BISCO® Silicones are available in various thicknesses giving Modus Advanced, Inc. the ability to manufacture cut parts to your most stringent dimension specifications.

PROPERTY		TEST METHOD	TYPICAL VALUE
PHYSICAL			
Color			Black, Red
Thickness,	inches (mm) Tolerance		1/16 - 1/2 (1.6 - 12.7) See Reverse
Standard Width,	inches (mm)		36.0 (914)
Density, lb./ft³ (kg	/m³)	ASTM D 1056	15 (240)
Compression Forc Deflection, psi (kP		Force measured @ 25% Deflection ASTM D 1056	4 (27.6)
Compression Set, % max.		ASTM D 1056 Test D @ 158°F (70°C), 22 hrs.	< 1
		ASTM D 1056 Test D @ 212°F (100°C), 22 hrs.	< 5
Tensile Strength, psi (kPa)		ASTM D 412	30 (207)
Elongation, %		ASTM D 412	90
FLAMMABILITY 8	& OUTGASSIN	G	
Flame Resistance		UL 94	Listed V-0 and HF-1
Flame Spread Index (L _s)		ASTM E 162	< 25
Smoke Density (D _s)		ASTM E 662	
		Tested @ 4.0 minutes	< 50
		Tested @ 1.5 minutes	< 20
		01.45.0000	

FEATURES AND BENEFITS

- Excellent memory and low stress relaxation reduces maintenance costs associated with gasket failures due to compression set and softening.
- Softness allows designers to use less force to seal enclosures and still protect their device from the environment.
- High compressibility allows material to conform to variable width gaps and awkward shapes, thereby allowing engineers more design flexibility.
- Resistance to ultraviolet light, ozone, extreme temperatures, and flame enables consistent performance in all environments.

APPLICATIONS

- Environmental seals to protect against pentration of dust, moisture, air, or light within outdoor enclosures such as lighting fixtures, HVAC units, and electronic cabinets.
- Shock absorbing cushions and gaskets within automobiles and appliances

INSTALLATION

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

MODUS ADVANCED TAKES YOU FROM IDEA TO IGNITION

Toxic Gas Emissions Rating



SMP-800C





Pass







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Recommended Intermittent

High Temperature Use, °F (°C)



BISCO® HT-870 SOFT CELLULAR SILICONE

PROPERTY	TEST METHOD	VALUE
ENVIRONMENTAL PROPERTIE	S	
Water Absorption	Internal: 24 hrs @ room temp.	2.50%
UV Resistance	SAE J - 1960	No Degradation
Ozone Effect Rating	ASTM D 1171	0 (No Cracks)
Corrosion Resistance	AMS - 3568	Pass
ELECTRICAL & THERMAL PRO	PERTIES	
Dielectric Constant	ASTM D 150	1.38
Dielectric Strength	ASTM D 149, Volts/mil	90
Dry Arc Resistance	ASTM D 495, Seconds	91
Volume Resistivity, Ohm - cm	ASTM D 257	1014
Thermal Conductivity, BTU in/hr/ft² /°F (w/m °K)	ASTM D 518	0.49 (0.07)
TEMPERATURE RESISTANCE		
Low Temperature Flex at -67°F (-55°C)	ASTM D 1056	Pass
Recommended Use Temperature, °F (°C)	SAE J-2236	-67 to 392 (-55 to 200)

TEST METHOD

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Internal

CUSTOMERS ALSO SEARCHED:				
Bisco	Urethane foam gaskets	Poron urethane foam		
Silicone	Cellular urethane	What is Poron		
Silicone sponge	LCD Gaskets	Poron material		
Silicone gaskets	Low outgassing	Poron foam		
Silicone sponge gasket	UL 94HBF gasket	Poron gasket		
Silicone foam	UL 94 V-0	Poron sheet		
Poron	Water sealing	Closed cell foam		
Microcellular	RoHS			
Microcellular urethane	LED gasket			

STANDARD THICKNESS TOLERANCE				
STAN	STANDARD THICKNESS			
INC	INCHES MM			
1/16	0.062	1.57	± 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	
3/8	0.375	9.53	± 0.045	
1/2	0.500	12.70	± 0.050	

WIDTH TOLERANCE (CELLULAR)			
NOMINAL WIDTH (INCHES)	TOLERANCE (W/O PSA)	TOLERANCE (WITH PSA)	
0 < T ≤ 3	± 0.063	± 0.031	
3 < T ≤ 8	± 0.094	± 0.031	
8 < T ≤ 12	± 0.125	± 0.031	
12 < T ≤ 18	± 0.188	± 0.031	
18 < T ≤ 26	± 0.219	± 0.063	
26 < T ≤ 36	± 0.250	± 0.063	

Notes:

VALUE

482 (250)

- 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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ABOUT MODUS





BISCO[®] HT-800 MEDIUM CELLULAR SILICONE



HT-800 is a highly versatile, medium firmness silicone that offers the lightness of a foam, with the enhanced sealing capabilities of a traditional sponge rubber. It is used to seal and protect various outdoor communication, electronics, and lighting enclosures, while providing protection against wind driven rain and fire. The material is also used to reduce shock or isolate vibration.

BISCO® Silicones are available in various thicknesses giving Modus Advanced, Inc. the ability to manufacture cut parts to your most stringent dimension specifications.

PROPERTY TEST METHOD TYPICAL VALUE

PHYSICAL			
Color			Black, Red & Gray
Thickness,	inches (mm) Tolerance		1/32 - 1/2 (0.80 - 12.70) See Reverse
Standard Width,	inches (mm)		36 (914)
Density, lb./ft³ (kg	/m³)	ASTM D 1056	22 (352)
Compression Forc Deflection, psi (kP		Force measured @ 25% Deflection ASTM D 1056	9.0 (62.0)
Compression Set, % max.		ASTM D 1056 Test D @ 158°F (70°C), 22 hrs.	<1%
		ASTM D 1056 Test D @ 212°F (100°C), 22 hrs.	<5%
Tensile Strength, psi (kPa)		ASTM D 412	45 (310)
Elongation, %		ASTM D 412	80
FLAMMABILITY & OUTGASSING			
Flame Resistance		UL 94	Listed V-0 and HF-1
Flame Spread Inde	ex (L _s)	ASTM E 162	< 25
Smoke Density (D _s)		ASTM E 662	
		Tested @ 4.0 minutes	< 50
		Tested @ 1.5 minutes	< 20
Toxic Gas Emission	ns Rating	SMP-800C	Pass

FEATURES AND BENEFITS

- Ultra low softness allows designers to use less force to seal enclosures and still protect their device from the environment.
- High compressibility allows material to conform to variable width gaps, thereby allowing more design flexibility.
- 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.

APPLICATIONS

- Vibration isolation in electronic components and transportation vehicles
- Low closure force gaskets within portable electronics such as laptops and LCD screens within aircraft and rail interiors
- Fire retardant thermal insulation

INSTALLATION

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















BISCO® HT-800 MEDIUM CELLULAR SILICONE

PROPERTY	TEST METHOD	VALUE
ENIVIDANIMENTAL DOODEDTIES		

ENVIRONMENTAL PROPERTIES			
Water Absorption	Internal: 24 hrs @ room temp.	1.40%	
Meets Ingredients Requirements section C of FDA CFR 177.2600 for Food Contact		HT-800 Gray & Black	
ELECTRICAL & THERMAL PROF	PERTIES		
Dielectric Constant	ASTM D 150	1.42	
Dielectric Strength	ASTM D 149, Volts/mil	91	
Dry Arc Resistance	ASTM D 495, Seconds	92	
Volume Resistivity, Ohm - cm	ASTM D 257	10 ¹⁴	
Thermal Conductivity, BTU in/hr/ft² /°F (w/m °K)	ASTM D 518	0.63 (0.09)	
TEMPERATURE RESISTANCE			
Low Temperature Flex at -67°F (-55°C)	ASTM D 1056	Pass	
Recommended Use Temperature, °F (°C)	SAE J-2236	-67 to 392 (-55 to 200)	
Recommended Intermittent High Temperature Use, °F (°C)	Internal	482 (250)	

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STAND	STANDARD THICKNESS TOLERANCE				
STAN	STANDARD THICKNESS				
IN	INCHES MM		(INCHES)		
1/32	0.031	0.80	± 0.015		
1/16	0.062	1.57	± 0.016		
3/32	0.094	2.39	± 0.020		
1/8	0.125	3.18	± 0.025		
3/16	0.188	4.76	± 0.030		
1/4	0.250	6.35	± 0.040		
3/8	0.375	9.53	± 0.060		
1/2	0.500	12.70	± 0.050		

WIDTH TOLERANCE (CELLULAR)				
NOMINAL WIDTH (INCHES)	TOLERANCE (W/O PSA)	TOLERANCE (WITH PSA)		
0 < T ≤ 3	± 0.063	± 0.031		
3 < T ≤ 8	± 0.094	± 0.031		
8 < T ≤ 12	± 0.125	± 0.031		
12 < T ≤ 18	± 0.188	± 0.031		
18 < T ≤ 26	± 0.219	± 0.063		
26 < T ≤ 36	± 0.250	± 0.063		

Notes:

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CUSTOMERS ALSO SEARCHED:			
Bisco	Urethane foam gaskets	Poron urethane foam	
Silicone	Cellular urethane	What is Poron	
Silicone sponge	LCD Gaskets	Poron material	
Silicone gaskets	Low outgassing	Poron foam	
Silicone sponge gasket	UL 94HBF gasket	Poron gasket	
Silicone foam	UL 94 V-0	Poron sheet	
Poron	Water sealing	Closed cell foam	
Microcellular	RoHS		
Microcellular urethane	LED gasket		

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BISCO® HT-820 FIRM CELLULAR SILICONE



BISCO® HT-820 is a 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 giving Modus Advanced, Inc. the ability to manufacture cut parts to your most stringent dimension specifications.

PROPERTY	TEST METHOD	TYPICAL VALUE

PHYSICAL			
Color			Gray
Thickness,	inches (mm) Tolerance		1/32 - 1/4 (0.8 - 6.4) See Reverse
Standard Width,	inches (mm)		36.0 (914)
Density, lb./ft³ (kg	/m³)	ASTM D 1056	23 (368)
Compression Force Deflection, psi (kPa)		Force measured @ 25% Deflection ASTM D 1056	16 (110.3)
		ASTM D 1056 Test D @ 158°F (70°C), 22 hrs.	< 1
Compression Set, % max.		ASTM D 1056 Test D @ 212°F (100°C), 22 hrs.	< 5
Tensile Strength, psi (kPa)		ASTM D 412	50 (345)
Elongation, %		ASTM D 412	55
FLAMMABILITY & OUTGASSING			

Flame Resistance	UL 94	Listed V-0 and HF-1	
Flame Spread Index (L _s) ASTM E 162		< 25	
	ASTM E 662		
Smoke Density (D _s)	Tested @ 4.0 minutes	< 50	
	Tested @ 1.5 minutes	< 20	
Toxic Gas Emissions Rating SMP-800C		Pass	

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.

APPLICATIONS

- Environmental seals to protect against pentration 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.

INSTALLATION

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















BISCO® HT-820 FIRM CELLULAR SILICONE

PROPERTY	TEST METHOD	VALUE		
ENVIRONMENTAL PROPERTIES				
Water Absorption	Internal: 24 hrs @ room temp.	0.80%		
UV Resistance	SAE J - 1960	No Degradation		
Ozone Effect Rating	ASTM D 1171	0 (No Cracks)		
Corrosion Resistance	AMS - 3568	Pass		
Meets Ingredients Requirement 177.2600 for Food Contact	s section C of FDA CFR	HT-820 Gray		
ELECTRICAL & THERMAL PROF	PERTIES			
Dielectric Constant	ASTM D 150	1.50		
Dielectric Strength	ASTM D 149, Volts/mil	93		
Dry Arc Resistance	ASTM D 495, Seconds	96		
Volume Resistivity, Ohm - cm	ASTM D 257	10 ¹⁴		
Thermal Conductivity, BTU in/hr/ft² /°F (w/m °K)	ASTM D 518	0.75 (0.11)		
TEMPERATURE RESISTANCE				
Low Temperature Flex at -67°F (-55°C)	ASTM D 1056	Pass		
Recommended Use Temperature, °F (°C)	SAE J-2236	-67 to 392 (-55 to 200)		
Recommended Intermittent High Temperature Use, °F (°C)	Internal	482 (250)		

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STANDARD THICKNESS		TOLERANCE		
INC	INCHES		(INCHES)	
1/32	0.031	0.80	± 0.015	
1/16	0.062	1.57	± 0.016	
3/32	0.094	2.39	± 0.020	
1/8	0.125	3.18	± 0.025	
3/16	0.188	4.76	± 0.030	
1/4 0.250 6.35		6.35	± 0.040	
WIDTH TOLERANCE (CELLULAR)				

STANDARD THICKNESS TOLERANCE

WIDTH TOLERANCE (CELLULAR)			
NOMINAL WIDTH (INCHES)	TOLERANCE (W/O PSA)	TOLERANCE (WITH PSA)	
0 < T ≤ 3	± 0.063	± 0.031	
3 < T ≤ 8	± 0.094	± 0.031	
8 < T ≤ 12	± 0.125	± 0.031	
12 < T ≤ 18	± 0.188	± 0.031	
18 < T ≤ 26	± 0.219	± 0.063	
26 < T ≤ 36	± 0.250	± 0.063	

Notes:

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

CUSTOMERS ALSO SEARCHED:				
Bisco	Urethane foam gaskets	Poron urethane foam		
Silicone	Cellular urethane	What is Poron		
Silicone sponge	LCD Gaskets	Poron material		
Silicone gaskets	Low outgassing	Poron foam		
Silicone sponge gasket	UL 94HBF gasket	Poron gasket		
Silicone foam	UL 94 V-0	Poron sheet		
Poron	Water sealing	Closed cell foam		
Microcellular	RoHS			
Microcellular urethane	LED gasket			

We are Modus! With multiple locations in North America and China, Modus Advanced, Inc. is a diversified custom manufacturer that converts EMI Shielding, Environmental Gasket Materials, Microwave Absorbers, Acoustic Materials, Thermal Interface Materials and other high performance materials into finished parts. Modus utilizes its 40 years as an established provider of high quality, reliable products to create precisely what customers specify. Innovative processes; custom fabrication utilizing performance materials; an on time delivery record of more than 99% means Modus is well positioned to help your company succeed.

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BISCO® HT-840 EXTRA FIRM CELLULAR SILICONE



BISCO® 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 giving Modus Advanced, Inc. the ability to manufacture cut parts to your most stringent dimension specifications.

PROPERTY TEST METHOD TYPICAL VALUE

PHYSICAL			
Color			Gray
Thickness,	inches (mm) Tolerance		1/16 - 1/4 (1.6 - 6.4) See Reverse
Standard Width,	inches (mm)		36.0 (914)
Density, lb./ft³ (kg	z/m³)	ASTM D 1056	27 (432)
Compression Ford Deflection, psi (kP		Force measured @ 25% Deflection ASTM D 1056	22 (151.7)
Compression Set, % max.		ASTM D 1056 Test D @ 158°F (70°C), 22 hrs.	< 1
		ASTM D 1056 Test D @ 212°F (100°C), 22 hrs.	< 5
Tensile Strength, psi (kPa)		ASTM D 412	60 (414)
Elongation, %		ASTM D 412	60
FLAMMABILITY 8	& OUTGASSIN	IG	
Flame Resistance		UL 94	Listed V-0 and HF-1
Flame Spread Index (L _s)		ASTM E 162	< 25
Smoke Density (D₅)		ASTM E 662	
		Tested @ 4.0 minutes	< 50
		Tested @ 1.5 minutes	< 20
Toxic Gas Emissions Rating		SMP-800C	Pass

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.

APPLICATIONS

- Environmental seals to protect against pentration 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 EXTRA FIRM CELLULAR SILICONE

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 PROF	PERTIES		
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, BTU in/hr/ft² /°F (w/m °K)	ASTM D 518	0.84 (0.12)	
TEMPERATURE RESISTANCE			
Low Temperature Flex at -67°F (-55°C)	ASTM D 1056	Pass	
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