



BISCO® Silicones



Silicone Material Selection Guide



BISCO® Silicones

MARKETS

Aircraft

Rail

Automotive

Telecommunications &
Electrical Enclosures

Portable Communications

Exterior Lighting

Medical Devices

Wire, Cable & Fiberoptics

Manufacturing Equipment

APPLICATIONS

Environmental Seals

Outdoor Electrical Gaskets

EMI/RFI Shielding Gaskets

Chip Package & Battery
Cushions

Automotive Heat Shields

HID Lighting Seals

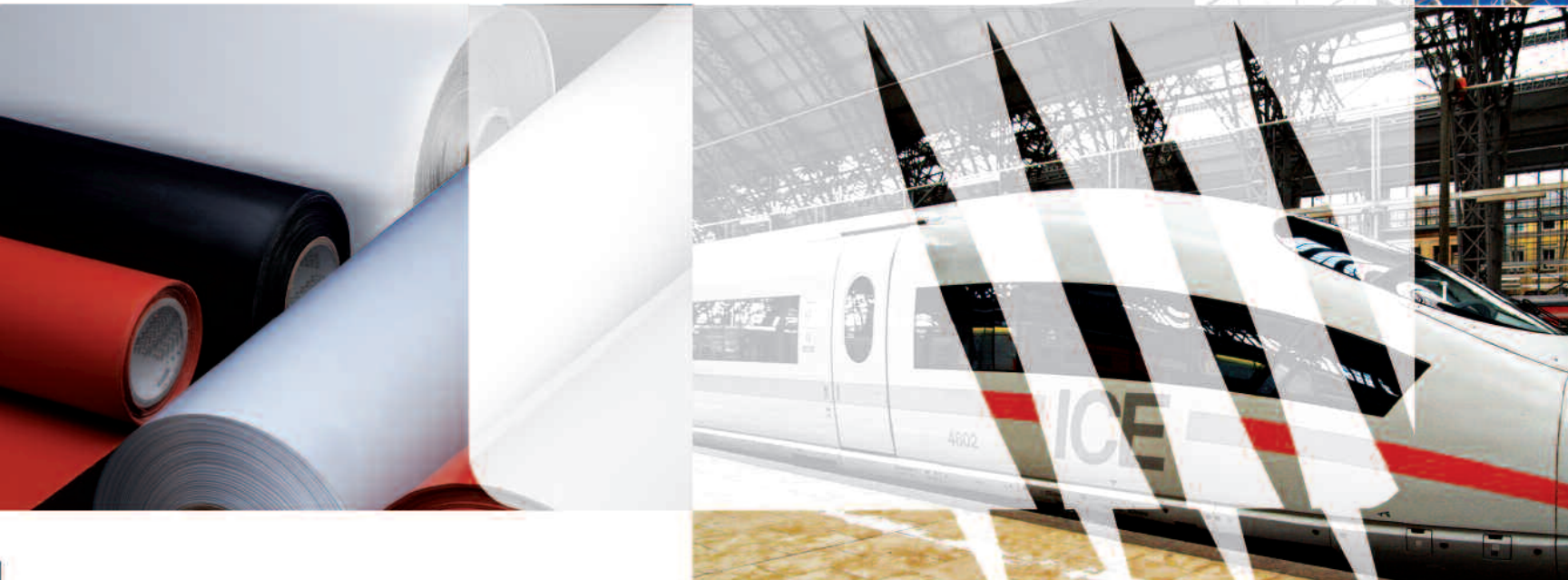
ROGERS' BISCO® SILICONES – PERFORMANCE TO THE EXTREME

Whether your design calls for high performance sealing, cushioning, or protection - the BISCO Silicones broad portfolio of material options will provide the best design solution for your application.

Our materials are resistant to temperature extremes, UV and ozone, and are extremely resilient to mechanical fatigue. BISCO Silicone materials exhibit excellent compression set and creep resistance, and carry the most stringent UL flame ratings available.



The world runs better with Rogers.®





WHY CHOOSE BISCO SILICONES?

BISCO Silicones are a full line of cellular, solid and specialty materials produced in roll-stock to be fabricated into gaskets, heat shields, fire stops, seals, cushions and insulation for a wide variety of applications.

BISCO Silicone Materials offer...

- Superior flame resistance
- Low flame, smoke, and toxicity upon combustion
- Excellent performance at extreme temperatures
- Superior resistance to compression set and creep

CELLULAR SILICONES

Available in a wide range of firmnesses, BISCO Cellular Silicones are ideal for sealing, cushioning, vibration isolation, and insulation.

- Open- and closed-cell offerings available
- Withstand temperatures from -55°C up to 200°C (-67°F to 392°F).
- Unsurpassed compression-set resistance for excellent long-term sealing
- Pass stringent smoke and toxicity regulations
- Meets the most stringent UL-94 flame ratings available, V-0 and HF-1

SOLID SILICONES

BISCO Solid Silicone materials are designed for high temperature/high pressure gasketing applications. They are available in a range of thicknesses and durometers, offering flexibility in materials selection. Grades are also available with fiberglass reinforcement for added dimensional stability and increased tear strength.

General Purpose Solids:

- Range of durometers from 40-70 Shore A
- Grades available with fiberglass reinforcement for added dimensional stability and increased tear strength

Performance Solids:

- Range of durometers from 10-40 Shore A
- Tight tolerances and softness, ideal for demanding sealing applications







SPECIALTY SILICONES

BISCO Specialty Silicone products are designed to meet specific industry needs. All of our specialty materials can withstand extreme temperatures and meet stringent industry flame tests.

Materials include....

- Acoustic barriers
- Patented fire blocking material
- Silicone coated fiberglass cloth
- Silicone foam combined with fabrics

TIPS FOR MATERIAL SELECTION

		Application Need								
Market	Flame, Smoke, Toxicity	UL Rated Material	Vibration Reduction	Acoustic Performance	Softness	Firmness	EMI Shielding	Moisture Resistant	Heat Shielding	Insulating
 Aerospace	□■		□■	□■	□■	■		■	■	□
 Communication Infrastructure	□■	□■	□■		□■	■	■	■	■	□
 Rail	□■		□■	□■	□■	■		■	■	□
 Automotive	□■		□■	□■	□■	■		■	■	□
 Energy	□■	□■	□■		□■	■		■	■	□
 Lighting	□■	□■			□■	■		■	■	□

Legend □ BISCO Cellular Silicones ■ BISCO Solid Silicones ■ BISCO Specialty Silicones

For specific information regarding applications in additional market areas, please contact the Rogers' Solutions Center at 800.935.2940 or 607.786.8112, or visit us online at www.rogerscorp.com

SPECIALTY SERVICES

Rogers Corporation, High Performance Foams Division, can offer the following value added capabilities to BISCO Silicone material:

ADHESIVE LAMINATION

Pressure Sensitive Adhesive options

Acrylic one or two sides of material

Silicone one side only

MATERIAL SLITTING

Ability to slit minimum width of 0.250" (6.35mm)

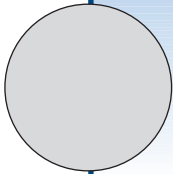
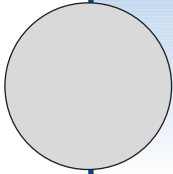
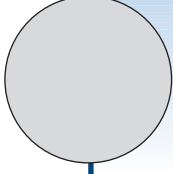
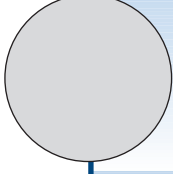
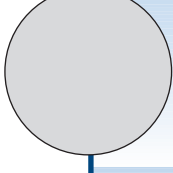
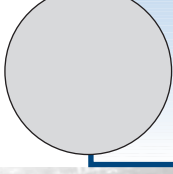
Width of slit must be greater or equal to thickness

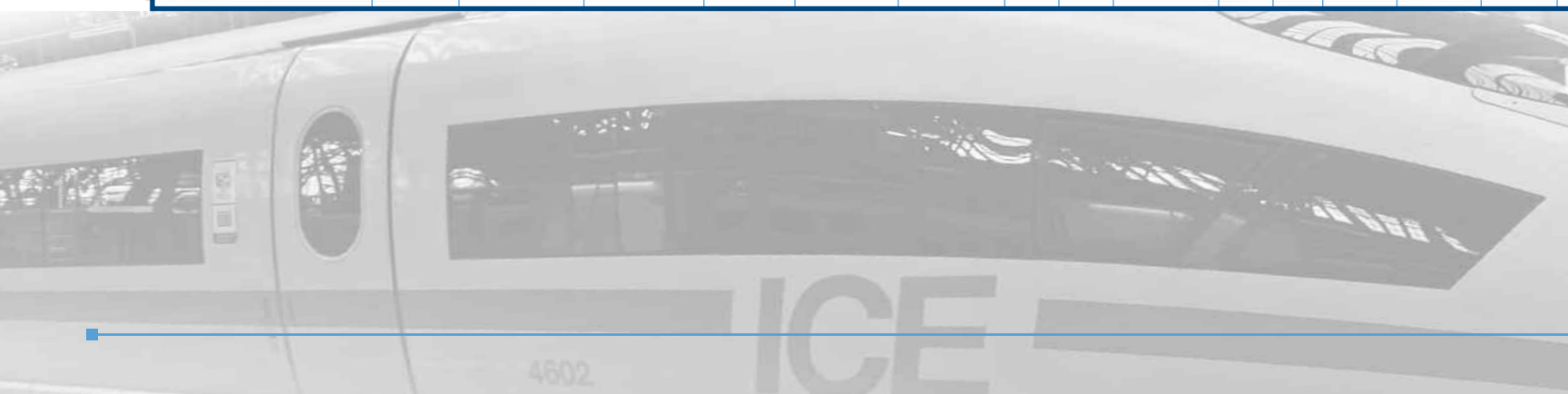
Material can be slit with or without adhesive applied

Maximum roll diameter is 14" (355.6mm)



CELLULAR SILICONES

		Typical Physical Properties										Flammability &			
Property	Density	Compression Force Deflection	Compression Set	Tensile Strength	Elongation	Water Absorption	Flame Resistance					Flame Spread Index (I _g)	Smoke Density (D _s)		
Unit	lb/ft ³ (kg/m ³)	psi (kPa)	%	psi (kPa)	%	%	-					-	-		
Method	-	ASTM D 1056	ASTM D 1056	ASTM D 412	ASTM D 412	Rogers Internal	UL 94 (File #: E83967)		FMVSS302	FAR 25.853		ASTM E 162	ASTM E 662		
Detail	-	@ 25% Deflection	@ 100°C (212°F)	-	-	24 hrs @ Room Temp	V-O	HF-1	Burn Rate (mm/min)	12 sec	60 sec	Flaming Mode	Flaming Mode @ 1.5 min	Flaming Mode @ 4.0 min	
	Ultra-Soft BF-2000	10 (160)	1.5 (10.3)	<5	25 (172)	85	5	Pass	Pass	Pass	Pass	Pass	25	12	45
	Extra-Soft BF-1000	12 (192)	3 (20.7)	<5	35 (241)	90	5	Pass	Pass	Pass	Pass	Pass	35	12	31
	Soft HT-870	15 (240)	4 (27.6)	<5	30 (207)	90	5	Pass	Pass	Pass	Pass	Pass	25	17	50
	Medium HT-800	22 (352)	9 (62.0)	<5	45 (310)	80	5	Pass	Pass	Pass	Pass	Pass	25	5	35
	Firm HT-820	23 (384)	16 (110.3)	<5	50 (345)	55	5	Pass	Pass	Pass	Pass	Pass	35	20	37
	Extra-Firm HT-840	27 (449)	22 (151.7)	<5	60 (414)	60	5	Pass	Pass	Pass	Pass	Pass	NA	NA	NA



Outgassing					Temperature Resistance		Electrical & Thermal					
Toxic Gas Emissions Rating	Total Mass Loss	Collected Volatile Condensable Materials (CVCM)	Water Vapor Regain	Recommended Constant Use	Low Temperature Embrittlement	Dielectric Constant	Dissipation Factor	Dielectric Strength	Dry Arc Resistance	Volume Resistivity	Thermal Conductivity	
-	%	-	-	°C (°F)	-	-	-	Volts/mil	Seconds	Ohm-cm	W/m °K	
SMP-800- C	ASTM E 595	ASTM E 595	ASTM E 595	Rogers Internal	ASTM D 746	ASTM D 150	ASTM D 150	ASTM D 149	ASTM D 495	ASTM D 257	ASTM C 518	
@ 1.5/4.0 min	4x10 ⁻⁶ Torr	4x10 ⁻⁶ Torr	4x10 ⁻⁶ Torr	-	-55°C (-67°F)	1 MHz	1 MHz	-	-	-	-	
Pass	3.81	1.14	0.07	200 (392)	Pass	1.28	0.01	52	125	10 ¹⁵	0.05	
Pass	3.46	1.12	0.04	200 (392)	Pass	1.29	0.01	66	124	10 ¹⁵	0.06	
Pass	1.19	0.34	0.02	200 (392)	Pass	1.38	0.01	65	124	10 ¹⁵	0.07	
Pass	0.98	0.25	0.03	200 (392)	Pass	1.56	0.01	67	124	10 ¹⁵	0.07	
Pass	2.11	0.63	0.02	200 (392)	Pass	1.47	0.01	69	125	10 ¹⁵	0.09	
NA	2.08	0.57	0.01	200 (392)	Pass	1.62	0.01	69	125	10 ¹⁵	0.10	

Gasketing & Sealing Rating	UL 157 JMLU2 Listed File# MH13898	HT-800 HT-820
UV Resistance	SAE J1960	All Materials Meet or Exceed
Ozone Effect	ASTM D 1171	All Materials Meet or Exceed



SOLID SILICONES

PERFORMANCE GRADE SILICONES

		Typical Physical Properties					
Property	Hardness	Compression Set	Tensile Strength	Elongation	Tear Strength	Low Temperature Embrittlement	
Unit	pts	%	psi (MPa)	%	ppi (kN/m)	-	
Method	ASTM D 2240	ASTM D 395 (B)	ASTM D 412	ASTM D 412	ASTM D 624	ASTM D 2137	
Detail	Shore A	70 hr @ 150°C (302°F)	-	-	-	-62°C (-80°F)	
	10 Durometer HT-6210	10	25-30	250 (1.7)	500	25 (4.4)	Pass / No Cracks
	20 Durometer HT-6220	20	25-30	800 (5.5)	650	55 (9.6)	Pass / No Cracks
	35 Durometer HT-6135	35	<15	800 (5.5)	450	70 (12.3)	Pass / No Cracks
	40 Durometer HT-6240	40	25-30	800 (5.5)	250	75 (13.1)	Pass / No Cracks

GENERAL PURPOSE SOLIDS

		Typical Physical Properties					
Property	Hardness	Compression Set	Tensile Strength	Elongation	Tear Strength	Low Temperature Embrittlement	
Unit	pts	%	psi (MPa)	%	ppi (kN/m)	-	
Method	ASTM D 2240	ASTM D 395 (B)	ASTM D 412	ASTM D 412	ASTM D 624	ASTM D 2137	
Detail	Shore A	70 hr @ 150°C (302°F)	-	-	-	-62°C (-80°F)	
	40 Durometer HT-1240	40	20	825 (5.7)	350	50 (8.8)	Pass / No Cracks
	50 Durometer HT-1250	50	20	950 (6.6)	300	70 (12.2)	Pass / No Cracks
	60 Durometer HT-1260	60	20	1050 (7.2)	250	75 (13.1)	Pass / No Cracks
	70 Durometer HT-1270	70	25	1150 (7.9)	200	90 (15.8)	Pass / No Cracks

SPECIALTY SILICONES

THERMAL SOLUTIONS

BISCO FIRE BLOCK MATERIALS: FPC

Flame retardant silicone foams designed to protect sensitive components from damage during fires.

Typical Physical Properties				
Property	Method	Detail	Unit	Value
Density	ASTM F 1315	-	lb/ft ³ (kg/m ³)	32 (555)
Surface Flammability	ASTM E 162	Flame Spread Index (I _s)	-	5
Smoke Generation	ASTM E 662	Smoke Density (D _s) - Flaming D _s -1.5 minutes	-	12
		Smoke Density (D _s) - Flaming D _s -4 minutes	-	40
Dielectric Breakdown	ASTM E 149-90	-	Volts	1100
Dielectric Strength	ASTM D 149-90	-	Volts/mil	9
Arc Resistance	ASTM D 495-99	-	Seconds	140

BISCO REFLECTIVE FOAM: RF-120

Reflective silicone foam designed to aid in heat management applications by both insulating against heat and reflecting it away.

Typical Physical Properties				
Property	Method	Detail	Unit	Value
Density	ASTM F 1315	Same as BF-1000 (Foam Only)	lb/ft ³ (kg/m ³)	12 (208)
Aerial Density	Rogers Internal	-	lb/ft ²	0.3
Compression Set	ASTM D 1056, Method B	22hrs, 50% Compressed @ 70°C (158°F)	% max	<1
		50% Compressed @ 100°C (212°F)		<5
Surface Flammability	ASTM E 162	Flame Spread Index (I _s)	-	1

BISCO REINFORCED FOAM: IF-200

Abrasion resistant foam that allows users to place the foam in slightly harsher environments while minimizing the potential for tearing the foam.

Typical Physical Properties				
Property	Method	Detail	Unit	Value
Density	ASTM F 1315	Same as BF-1000 (Foam Only)	lb/ft ³ (kg/m ³)	12 (208)
Aerial Density	Rogers Internal	-	lb/ft ²	0.3
Compression Set	ASTM D 1056, Method B	22hrs, 50% Compressed @ 70°C (158°F)	% max	<1
		50% Compressed @ 100°C (212°F)		<5
Surface Flammability	ASTM E 162	Flame Spread Index (I _s)	-	<25

BISCO FR PERFORMANCE SOLID: HT-6360

Formulated to be a solid flame resistant material that meets the strictest flammability ratings.

Typical Physical Properties				
Property	Method	Detail	Unit	Value
Durometer	ASTM D 2240	Shore A	pts	65
Tensile Strength	ASTM D 412	-	psi (MPa)	300 (2.1)
Elongation	ASTM D 412	-	%	175
Surface Flammability	ASTM E 162	Flame Spread Index (I _s)	-	6



SPECIALTY SILICONES

ACOUSTIC SOLUTIONS

BISCO VIBRATION ISOLATOR: L3-A

BISCO L3-A silicone foams are designed to meet the unique performance requirements of railcar flooring systems. By consistently demonstrating ideal stiffness and excellent elasticity, BISCO L3-A ensures maximum vibration isolation under all travel conditions.

Typical Performance Values				
Property	Method	Detail	Unit	Value
Density	ASTM F 1315	-	kg/m ³ (lb/ft ³)	232 (14.5)
Compression Force Deflection	ASTM D 1056	Force Load Measured @ 25% Deflection	kPa (psi)	36.20 (5.25)
Compression Set	ASTM D 1056	Test B @ 70°C (158°F), 22hrs	% Maximum	<1
		Test B @ 100°C (212°F), 22hrs		<5
Storage Modulus	Rogers Internal (Based on DIN 53513)	@ 40 Hz	MPa (psi)	0.33 (48)
		@ 100 Hz		0.51 (74)
Mechanical Loss Factor	Rogers Internal (Based on DIN 53513)	-	-	0.40
Dynamic Stiffness	Rogers Internal (Based on DIN 53513)	@ 40 Hz	N/m (lb-f/in)	5201 (29.6)
		@ 100 Hz		7994 (45.6)
Elongation	ASTM D 412	-	% Minimum	40
Tensile Strength	ASTM D 412	-	min. kPa (psi)	172 (25)
Sound Transmission Loss Rating	ASTM E 90	16 mm thickness	STC	20

BISCO SOUND BLOCK: HT-200

BISCO Sound Block materials are silicone elastomers designed to reduce the transmission of sound within interior spaces while preventing the spread of fire and smoke.

Typical Performance Values				
Property	Method	Detail	Unit	Value
Flame Spread (I _f)	ASTM E 162	-	-	<5
Smoke Density (D _s)	ASTM E 662	Flaming D _s -4 minutes	-	<75
		Flaming D _s -1.5 minutes		<5
		Non-Flaming D _s		<5
Oxygen Index	ASTM D 2863	-	%	50
Toxic Gas Emissions	SMP-800C	-	-	Pass
Sound Transmission Loss Rating	ASTM E 90	Aerial Density	STC	
		1.5 lb/ft ²		29
		1.0 lb/ft ²		27
		0.75 lb/ft ²		25
		0.50 lb/ft ²		22
		0.25 lb/ft ²	16	

SPECIALTY SILICONES

BISCO EMI SHIELDING MATERIAL EC-2000

BISCO EC-2000 Electrically Conductive Solid Silicones are an ideal EMI/RFI shielding solution when high shielding effectiveness is a must. These soft, conductive materials offer exceptional compression force deflection to increase design flexibility for all types of enclosures.

Typical Performance Values					
Property	Method	Detail	Unit	Value	
				EC-2040	EC-2130
Specific Gravity	Internal	-	g/cc	2.18	1.97
Hardness	ASTM D 2240	Shore A		40	30
Tensile Strength	ASTM D 412	-	psi	90	50
Elongation	ASTM D 412	-	%	60	50
Volume Resistivity	Rogers Internal	-	Ohm-cm	<1	<1
Shielding Effectiveness	MIL G83528	100 MHz	dB	120	100
		500 MHz		120	100
		1 GHz		110	110
		10 GHz		85	85

FIBERGLASS REINFORCED SILICONE HT-1500

Designed for press pad and high strength gasketing applications where durability and tear resistance are critical.

Typical Performance Values				
Property	Method	Detail	Unit	HT-1500
Durometer	ASTM D 2240	Shore A	pts	75
Compression Set	ASTM D 395(B)	70 hr @ 150°C (302°F)	%	25
Breaking Strength	ASTM D 412	-	psi (MPa)	300 (5.3)
Low Temperature Embrittlement	ASTM D 2137	-62°C (-80°F)	-	Pass/No Cracks



BISCO SILICONE TOLERANCES

Cellular Standard Thickness Tolerance										
in	1/32	1/16	3/32	1/8	3/16	1/4	3/8	1/2	3/4	1
	0.031	0.063	0.094	0.125	0.188	0.250	0.375	0.500	0.750	1.000
mm	0.79	1.60	2.39	3.18	4.78	6.35	9.53	12.70	19.05	25.40
BF-2000	-	-	-	+/- 0.025	+/- 0.030	+/- 0.040	+/- 0.060	+/- 0.060	-	-
BF-1000	-	+/- 0.016	+/- 0.020	+/- 0.025	+/- 0.030	+/- 0.040	+/- 0.060	+/- 0.050	+/- 0.090	+/- 0.090
HT-870	-	+/- 0.020	+/- 0.020	+/- 0.025	+/- 0.030	+/- 0.040	+/- 0.045	+/- 0.050	-	-
HT-800	+/- 0.015	+/- 0.020	+/- 0.020	+/- 0.025	+/- 0.025	+/- 0.030	+/- 0.045	+/- 0.050	-	-
HT-820	+/- 0.015	+/- 0.020	+/- 0.020	+/- 0.025	+/- 0.025	+/- 0.030	-	-	-	-
HT-840	-	+/- 0.020	+/- 0.020	+/- 0.025	+/- 0.025	+/- 0.040	-	-	-	-

Solids Standard Thickness Tolerance					
in	0.010 - 0.014	0.015 - 0.025	0.026 - 0.040	0.041 - 0.094	0.095 - 0.145
mm	0.25 - 0.36	0.38 - 0.64	0.66 - 1.02	1.04 - 2.39	2.41 - 3.68
HT-6210	+/- 0.002	+0.003, -0.002	+/- 0.004	+/- 0.006	+/- 0.008
HT-6220					
HT-6135					
HT-6240					
HT-6360					

Width Tolerance														
in	0 < T < 3		3 < T < 8		8 < T < 12		12 < T < 18		18 < T < 26		26 < T < 36		T ≥ 36	
	0 < T < 76		76 < T < 203		203 < T < 305		305 < T < 457		457 < T < 660		660 < T < 914		T ≥ 914	
mm	w/o PSA	w/ PSA	w/o PSA	w/ PSA	w/o PSA	w/ PSA	w/o PSA	w/ PSA	w/o PSA	w/ PSA	w/o PSA	w/ PSA	w/o PSA	w/ PSA
Cellular														
Solids	+/- 0.063	+/- 0.031	+/- 0.094	+/- 0.031	+/- 0.125	+/- 0.031	+/- 0.188	+/- 0.031	+/- 0.219	+/- 0.063	+/- 0.250	+/- 0.063	+ 1.0, -0	+ 1.0, -0
Specialty														



BISCO SILICONE SPECIFICATIONS

		Aerospace Global Specifications					
		FAR 25.853	ABS 5006	ABS 5026	BMS 1-68	AMS 3195	DMS-1980
CELLULAR SILICONES	BF-1000	●	-	-	●	-	●
	BF-1005 (A)	●	●	-	●	-	-
	HT-800	●	-	-	-	●	-
	L3-A	●	-	-	-	-	-
SPECIALTY SILICONES	FPC	●	-	●	-	-	-
	HT-6360	●	-	-	-	-	-
	HT-200	●	-	-	-	-	-

		Global Specifications			
		Mass Transit			Automotive
		BS 6853* (Tested to)	NF F 16-101* (Tested to)	NFPA 130* (Tested to)	MS-AY556* (Table 4)
CELLULAR SILICONES	BF-1000	●	●	●	●
	HT-800	●	●	●	●
SPECIALTY SILICONES	L3-A	●	●	●	-

* Indicated materials have been tested to specific sections of each safety standard. Ask your Customer Service Representative for detailed results.

		General Industry Specifications						
		AMS 3195	AMS 3196	A-A59588	AMS 3320	AMS 3302 - 3305	UL-94**	
							HF-1	V-0
CELLULAR SILICONES	BF-2000	-	-	-	-	-	●	●
	BF-1000	-	-	-	-	-	●	●
	HT-800	●	-	-	-	-	●	●
	HT-820	-	●	-	-	-	●	●
	HT-870	-	-	-	-	-	●	●
	HT-840***	-	-	-	-	-	●	●
SOLID SILICONES	HT-1240	-	-	●	-	-	-	-
	HT-1250	-	-	●	-	●	-	-
	HT-1260	-	-	●	-	●	-	-
	HT-1270	-	-	●	-	●	-	-
	HT-1500***	-	-	-	●	-	-	-
SPECIALTY SILICONES	HT-6360	-	-	-	-	-	●	●

** Underwriters Laboratories limits the ratings to specific colors and thicknesses. Consult www.ul.com for more details.

*** >0.031 thickness



PRODUCT AVAILABILITY

				Thickness																				
				mm	0.25	0.51	0.79	1.60	2.39	2.50	3.18	4.78	5.00	6.35	9.53	10.00	12.70	15.88	16.00	19.05	25.40			
				inch	0.010	0.020	0.031	0.063	0.094	0.100	0.125	0.188	0.200	0.250	0.375	0.390	0.500	0.625	0.630	0.750	1.000			
		Color	Width Inch																					
CELLULAR SILICONE	Ultra-Soft	BF-2000	Black	36							●	●		●	●		●							
	Extra-Soft	BF-1000	White Gray	36				●	●		●	●		●	●		●	●		●	●		●	
	Soft	HT-870	Black Red	36				●	●		●	●		●	●		●							
	Medium	HT-800	Gray Black Red	36			● not red	●	●		●	●		●	●		●							
	Firm	HT-820	Gray	36				●	●	●		●	●		●									
	Extra Firm	HT-840	Gray	36				▶	●	●		●	●		●									
PERFORMANCE GRADE SILICONE	10 Durometer	HT-6210	Gray	36		○	○	○	○	▶		○												
	20 Durometer	HT-6220	Black	36		○	○	○	○	▶		○												
	35 Durometer	HT-6135	Cream	36		○	○	●	●	▶		▶												
	40 Durometer	HT-6240	Transparent	36		○	○	●	●	▶		●												
GENERAL PURPOSE SOLIDS	40 Durometer	HT-1240	Red	36			▶	●	●	●		●	▶		▶									
	50 Durometer	HT-1250	Red	36			▶	●	●	●		●	▶		▶									
	60 Durometer	HT-1260	Red	36			▶	●	●	●		●	▶		▶									
	70 Durometer	HT-1270	Red	36			▶	●	●	●		●	▶		▶									
SPECIALTY SILICONE	Fire Block	FPC	White	36				●	●		●	▶		●										
	Reflective Foam	RF-120	White	36						●	▶	▶	●	▶	▶		▶	▶	▶	▶	▶	▶	▶	
	Reinforced Foam	IF-200	White	36							▶	▶	●	▶	▶		▶	▶	▶	▶	▶	▶	▶	
	FR Performance Solid	HT-6360	Black	36			○	●	●	▶		●												
	Vibration Isolator	L3-A	Blue Streak	36												●	●		●					
	EMI Shielding	EC-2040	Dk Gray	36			●	●																
		EC-2130	Dk Gray	36						●		●												
	Dimensionally Stable Material	HT-1500	Red	36/39.4				○	●	●		●												
		HT-1510	Gray	36/39.4				○	●	▶		▶												
Sound Block	HT-200	Black	36	Sold by weight only, not thickness. See below for standard weights. Also available with adhesive (one side only) and/ or fiberglass on one or two sides.																				

Legend	
●	Standard Product
○	Standard Product Not w/Adhesive
▶	Custom Materials
■	Not Available

HT-200 Availability	
Target Wt (lb/ft ²)	Thickness (in)
0.25 +/- 0.030	0.025 +/- 0.003
0.50 +/- 0.050	0.050 +/- 0.005
0.75 +/- 0.075	0.075 +/- 0.008
1.00 +/- 0.100	0.100 +/- 0.010
1.50 +/- 0.150	0.150 +/- 0.015



BISCO[®] Silicones



High Performance Foams Division

Carol Stream, IL, USA

Tel: 630.784.6200 Fax: 630.784.6201 Cust. Orders Toll Free: 800.237.2068

Samples, Literature, Tech Support Toll Free: 800.935.2940



The Quality Management System at the Carol Stream facility is Registered to ISO 9001:2000 and AS9100 by Underwriters Laboratories (File # A-5857).

www.rogerscorp.com

Contact Information

Belgium	Rogers BVBA	Tel: +32 9 2353611	Fax: +32 9 2353658
Taiwan	Rogers Taiwan Inc.	Tel: +886.2.8660.9056	Fax: +886.2.8660.9057
Singapore	Rogers Technologies (Singapore) Inc.	Tel: +65.6747.3521	Fax: +65.6747.7425
Japan	Rogers Japan Inc.	Tel: +81.3.5200.2700	Fax: +81.3.5200.0571
Korea	Rogers Korea Inc.	Tel: +82.31.291.3660	Fax: +82.31.291.3610
Shanghai	Rogers (Shanghai) International Trading Co., Ltd.	Tel: +86.21.62175599	Fax: +86.21.62677913
Beijing	Rogers (Shanghai) International Trading Co., Ltd.	Tel: +86.10.5820.7667	Fax: +86.10.5820.7997
Shenzhen	Rogers (Shanghai) International Trading Co., Ltd.	Tel: +86.755.8236.6060	Fax: +86.755.8236.6123

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