

**BISCO™ Solid Silicone**

*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 with increased tear strength.*

**BISCO Solid Silicones Offer:**

- High temperature resistance (to 425°F/218°C)
- Excellent sealability
- UV and ozone resistance
- Excellent recovery after compression

**Typical Physical Properties**  
**BISCO Solid Silicones**

Property	Test Method	HT-1240	HT-1250	HT-1260	HT-1270
<b>Physical Properties:</b> Durometer, Shore "A" (pts)	ASTM D2240	40	50	60	70
Tensile Strength, psi (MPa)	ASTM D412	825 (5.7)	950 (6.6)	1050 (7.2)	1150 (7.9)
Elongation, %	ASTM D412	350	300	250	200
Tear Strength, pli (kN/m)	ASTM D624	50 (8.8)	70 (12.2)	75 (13.1)	90 (15.8)
Compression Set, %	ASTM D395B - 70 hr @ 302°F (150°C)	20	20	20	25

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Property	Test Method	HT-1240	HT-1250	HT-1260	HT-1270
<b>Effects of Dry Heat Aging:</b> Change in Hardness, Shore "A" (pts) <b>70 hr. @ 437°F (225°C)</b>	ASTM D573	+/-5	+/-5	+/-5	+/-5
Change in Tensile Strength, %	ASTM D573	-15	-15	-15	-15
Change in Elongation, %	ASTM D573	-35	-35	-35	-35
<b>Effects of Oil Immersion (ASTM#1 Oil)</b> Change in Hardness, Shore "A" (pts) <b>70 hr. @ 302°F (150°C)</b>	ASTM D471	-10/+5	-10/+5	-10/+5	-10/+5
Change in Tensile Strength, %	ASTM D471	-10	-10	-10	-10
Change in Elongation, %	ASTM D471	-15	-15	-15	-15
Change in Volume, %	ASTM D471	+5	+5	+5	+5

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Property	Test Method	HT-1240	HT-1250	HT-1260	HT-1270
<b>Electrical &amp; Thermal Properties</b> Dielectric Constant	ASTM D150	3.0	3.0	3.1	3.2
Dielectric Strength, Volts/mil	ASTM D149	400	400	400	400
Volume Resistivity (Ohm/cm)	ASTM D257	>1x10 <sup>14</sup>	>1x10 <sup>14</sup>	>1x10 <sup>14</sup>	>1x10 <sup>14</sup>
Thermal Conductivity (BTU in/hr/ft <sup>2</sup> /°F) (Wm/°K)	ASTM C518	1.7 0.25	1.8 0.26	1.9 0.27	2.1 0.30
<b>Environmental Resistance</b> Volume Change from Water Immersion %	ASTM D471 - 70 hr. @212° F (100°C)	+10	+5	+5	+5
Low Temperature Embrittlement, °F (°C)	ASTM D2137	-80 (-62)	-80 (-62)	-80 (-62)	-80 (-62)
Intermittent Upper Temperature Limit, °F (°C)	Rogers Internal	500 (260)	500 (260)	500 (260)	500 (260)
Recommended Use Temperature, °F (°C)	SAE J-2236	-80 to 425 (-62 to 218)	-80 to 425 (-62 to 218)	-80 to 425 (-62 to 218)	-80 to 425 (-62 to 218)



# MERRYWEATHER FOAM, INC.

An ISO9002 Certified Company

Property	Test Method	HT-1240	HT-1250	HT-1260	HT-1270
<b>Specifications Available</b> ZZ-R-765, Class IIa/IIb, Grade AMS Specification		40 n/a	50 3302	60 3303	70 3304
<b>Dimensions Available</b> Thickness Range Standard Widths Standard Colors		0.020"/0.250" (0.5mm/6.4mm) 36"(915mm) Red*	0.020"/0.250" (0.5mm/6.4mm) 36"(915mm) Red*	0.020"/0.250" (0.5mm/6.4mm) 36"(915mm) Red*	0.020"/0.250" (0.5mm/6.4mm) 36"(915mm) Red*

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**Solid Silicone Products**

Effective Application Temperature Ranges: -80 to +425 F (-62 to +218 C)

**HT-1200 Series Specification Grade HCR Silicone Rubber Sheeting**

Product Number	Color(s)	Thickness		Width		Length		Total		Approx. Weight	
		inches	mm	inches	mm	yd	m	sq ft	sq m	lbs.	kg
HT-1240	Red	1/32"	0.79	36	914	30	27.4	30	25.1	48	22
HT-1250										51	23
HT-1260										53	24
HT-1270										55	25
HT-1240	Red	1/16"	1.59	36	914	30	27.4	30	25.1	98	44
HT-1250										103	47
HT-1260										107	49
HT-1270										112	51

HT-1240	Red	3/32"	2.38	36	914	20	18.3	20	16.7	97	44
HT-1250										101	46
HT-1260										105	48
HT-1270										110	50
HT-1240	Red	1/8"	3.18	36	914	20	18.3	20	16.7	130	59
HT-1250										136	62
HT-1260										142	64
HT-1270										147	67

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**HT-1500 Fiberglass Reinforced (HCR) Silicone Rubber Sheeting (75 Durometer)**

1/16", 3/32" and 1/8" thicknesses meet AMS 3320.

Product Number	Color(s)	Thickness		Width		Length		Total		Approx. Weight	
		inches	mm	inches	mm	yd	m	sq ft	sq m	lbs.	kg
HT-1500	Red	1/32"	0.799	36	914	30	27.4	30	25.1	55	25
		1/16"	1.59	36	914	30	27.4	30	25.1	112	51
HT-1500	Red	3/32"	2.38	36	914	20	18.3	20	16.7	110	50
		1/8"	3.18	36	914	20	18.3	20	16.7	147	67

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## HT-1510 Fiberglass Reinforced (HCR) Silicone Rubber Sheeting (80 Durometer)

Product Number	Color(s)	Thickness		Width		Length		Total		Approx. Weight	
		inches	mm	inches	mm	yd	m	sq ft	sq m	lbs.	kg
HT-1510	Gray	1/16"	1.59	36	914	30	27.4	30	25.1	105	48

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**HT-6210 Liquid Silicone Rubber Sheeting (10 Durometer)**

Color(s)	Thickness		Width		Length		Total		Approx. Weight	
	inches	mm	inches	mm	ft	m	sq ft	sq m	lbs.	kg
Gray		0.25	36	914	50	15.2	150	13.9		8
		0.5	36	914	50	15.2	150	13.9		13
	1/32"	0.79	36	914	50	15.2	150	13.9		18
	1/16"	1.59	36	914	50	15.2	150	13.9		34
	1/8"	3.18	36	914	50	15.2	150	13.9		53

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**HT-6220 Liquid Silicone Rubber Sheeting (20 Durometer)**

Color(s)	Thickness		Width		Length		Total		Approx. Weight	
	inches	mm	inches	mm	ft	m	sq ft	sq m	lbs.	kg
Black		0.25	36	914	50	15.2	150	13.9		8
		0.5	36	914	50	15.2	150	13.9		13
	1/32"	0.79	36	914	50	15.2	150	13.9		18
	1/16"	1.59	36	914	50	15.2	150	13.9		34
	1/8"	3.18	36	914	50	15.2	150	13.9		53

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## HT-6135 Liquid Silicone Rubber Sheeting (35 Durometer)

Color(s)	Thickness		Width		Length		Total		Approx. Weight	
	inches	mm	inches	mm	ft	m	sq ft	sq m	lbs.	kg
Cream		0.25	36	914	50	15.2	150	13.9		10
		0.5	36	914	50	15.2	150	13.9		13
	1/32"	0.79	36	914	50	15.2	150	13.9		18
	1/16"	1.59	36	914	50	15.2	150	13.9		34

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**HT-6240 Liquid Silicone Rubber Sheeting (40 Durometer)**

Color(s)	Thickness		Width		Length		Total		Approx. Weight	
	inches	mm	inches	mm	ft	m	sq ft	sq m	lbs.	kg
Transparent		0.25	36	914	50	15.2	150	13.9		10
		0.5	36	914	50	15.2	150	13.9		13
	1/32"	0.79	36	914	50	15.2	150	13.9		18
	1/16"	1.59	36	914	50	15.2	150	13.9		34
	1/8"	3.18	36	914	50	15.2	150	13.9		53

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