

# Silicon Rubber Sheets / High Strength Silicon Rubber Sheets

Silicon rubber excels in heat, low temperature and weather resistance. Compliant with Food Sanitation Act, Ordinance of the Ministry of Health and Welfare No. 85.  
High Strength Silicon Rubber has 3-5 times more tear strength than the ordinary silicon rubber which is inferior in mechanical strength. For Rubber Gaskets, see P.2632. For Rubber Blocks, see P.2613.

**Silicon / High Strength Silicon Rubber Sheets**

**A Selectable – Square Type**

A Selectable Type		A / B Configurable Type		Material	Hardness	Color
No Adhesive	Adhesive	No Adhesive	Adhesive			
RBSM	RBSMA	RBSMF	RBSMFA	Silicon Rubber (SI)	Shore A70	Light Gray
RBAM	RBAMA	RBAMF	RBAMFA	Silicon Rubber (SI)	Shore A50	Milky White
RBHSM	RBHSMA	RBHSMF	RBHSMFA	High Strength Silicon Rubber (SI)	Shore A50	Ivory

Adhesive thickness is 0.14~0.2 mm  
For Adhesive Strength Data, refer to P.2657 (ADTS)  
The milky white color of silicone rubber shore A 50 is translucent.

**Accuracy Standards**

**T Tolerance**

T	Tolerance
0.5	±0.2
1-3	±0.3
5	±0.4
10	±0.6
15-30	-0.5~+2.0

**A / B Tolerance**

A / B	Tolerance
200 or Less	±0.5
201-300	±1.0
301-500	±1.5

**A Selectable – Band Type**

**A / B Configurable – Hole Type**

**A / B Configurable – Standard Type**

For Adhesive Type T5 or more, the adhesive tape may tear from the body. Please use it as temporary fixing, or in combination with bolt fixing.  
A / B dimension tolerance has changed. Please refer to the precision standard above.

A Selectable – Square Type			A Selectable – Band Type			A, B Configurable – Standard Type		
Part Number	Type	T	Part Number	Type	T	Part Number	Type	1 mm Increment
		0.5			0.5			0.5
		*1			*1			*1
		*2			*2			*2
		*3			*3			*3
		*5			*5			*5
		*10			*10			*10
		15			15			15
		20			20			20
		30			30			30

Only those \* marked are available for T dimension of RBHSM, RBHSMA.

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L dimension is 500 mm.

Only those \* marked are available for T dimension of RBHSMF, RBHSMFA.  
A≥B≥T

**A, B Configurable – Hole Type**

Part Number	Type	1 mm Increment (A≥B≥T)		0.5 mm Increment		Bolt Nominal Diameter	
		Nominal	T	F	G	N (Through Hole)	Z (Counterbore Hole)
		1H	*0.5				
		2H	*1				
		3H	*3				
		4H	*5				
		6H	*10				
		20					
		30					

Hole Machining Details

Bolt Nominal	3	4	5	6	8	10
d	3.5	4.5	5.5	6.5	9	12
d1	6.5	8	9.5	11	14	17.5
h	3.5	4.5	5.5	6.5	9	11

Only those \* marked are available for T dimension of RBHSMF, RBHSMFA.  
Dimension F Specification Range: For 1H, 2H, 3H:  $d(d_1)/2+2.5 \leq F \leq A-d(d_1)/2-2.5$ . For 2H, 4H:  $d(d_1)+5 \leq F \leq A-d(d_1)-5$ . For 3H, 6H:  $d(d_1)+5 \leq F \leq A/2-d(d_1)/2-2.5$ .  
Dimension G Specification Range: For 1H, 2H, 3H:  $d(d_1)/2+2.5 \leq G \leq B-d(d_1)/2-2.5$ . For 4H, 6H:  $d(d_1)+5 \leq G \leq B-d(d_1)-5$ . (d for through holes, d1 for counterbore.)

**A Selectable – Square & Band Types**

**Part Number Example**

Part Number - A  
RBSMA15 - 300

**A, B Configurable - Standard/Hole Type**

Part Number - A - B - F - G - Bolt Nominal

RBSMF10 - 110 - 65  
RBHSMFA4H5 - 200 - 150 - F140 - G100 - N5

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continued

## A / B Dimension Configurable Type

Part Number	Type	T	Available Types						
			A	B					
				10-50	51-100	101-200	201-300	301-400	401-500
No Adhesive RBSMF	RBAMF	0.5							
		1							
		2							
		3							
		5							
		10							
		15							
Adhesive RBMFA	RBAMFA	0.5							
		1							
		2							
		3							
		5							
		10							
		15							
No Adhesive RBHSMF	RBAMF	0.5							
		1							
		2							
		3							
		5							
		10							
		15							
Adhesive RBHSMFA	RBAMFA	0.5							
		1							
		2							
		3							
		5							
		10							
		15							

Part Number	Type	T	Available Types					
			A	B				
				10-100	101-200	201-300	301-400	401-500
No Adhesive RBHSMF	RBAMF	1						
		2						
		3						
		5						
		10						
Adhesive RBHSMFA	RBAMFA	1						
		2						
		3						
		5						
		10						

**Features of High Strength Silicon Rubber**

Excels in tear strength in comparison with general silicon rubber.  
Comparison of Tear Strength (N/mm)

Silicon Rubber (Shore A70)	7
Silicon Rubber (Shore A50)	10
High Strength Silicon Rubber (Shore A50)	32
Nitrile Rubber (Shore A70)	20

JIS K6252

**Part Number Alterations**

Part Number - A - B - F - G - N - (XC, YC)  
RBAMF4H5 - 100 - 80 - F65 - G40 - N4 - YC30

**Application Example**

**Alterations**

	Hole Position from Left	Hole Position from Bottom
Code	XC	YC
Spec.	XC=1 mm Increment 5≤XC≤486 (2H, 4H Type) $d(d_1)/2+2.5 \leq XC \leq A-F-d(d_1)/2-2.5$ (3H, 6H Type) $d(d_1)/2+2.5 \leq XC \leq A-2F-d(d_1)/2-2.5$	YC=1 mm Increment 5≤YC≤486 $d(d_1)/2+2.5 \leq YC \leq B-G-d(d_1)/2-2.5$