

Urethane Sponge Sheets, Rubber Sponge Sheets

For Sponge Gaskets, see P.455. For Sponge Tapes, see P.449.

	Standard Type		Configurable Type		Material	Hardness	Color
	No Adhesive	Adhesive	No Adhesive	Adhesive			
	SGNN	SGNS	SGNNF	SGNSF			
-	-	-	SGNC	SGNCA	Polyurethane Sponge	(Less than Asker C1)	Black
-	-	-	SGNW	SGNWA	Chloroprene Rubber Sponge	Asker C25	Black
-	-	-	SGNP	SGNPA	Chloroprene Rubber Sponge	Asker C25	White
-	-	-	SGNB	SGNBA	EPDM Sponge	Asker C8	Black
-	-	-	SGNF	SGNFA	NBR Sponge	Asker C30	Black
SISP	SISA	SGNA	SGNAA		Silicon Rubber Sponge	Asker C35* (Asker C22)	Orange
-	-	SGNL	SGNLA		Silicon Rubber Sponge	Asker C15	Orange
-	-	SGNF	SGNFA		Fluororubber Sponge	Asker C35	Black

* Values in () are applicable to Standard Type of silicon sponge.

Temperature limit for seals is 80°C.
SGNW and SGNWA might discolor by aging.

Accuracy Standards

Polyurethane Sponge		Others	
A, B	Tolerance	A, B	Tolerance
390 or Less	±2	190 or Less	±1.5
400~790	±2.5	200~390	±2
800	±3	400 or More	±3

Adhesive thickness is 0.14 ~ 0.2mm.

Standard Type

Part Number		T Tolerance	Selection	
Type	T Selection		A	B
SGNN SGNS	10	±1	100	100
	30	±2	200	400
	50	±3	500	800
SISP SISA	3	±0.5	100	100
	5		250	
	10	±1		

Configurable Type

Part Number	10mm Increment		T Selection	T Tolerance
	A	B		
SGNC SGNW SGNP SGNB SGNCA SGNWA SGNPA SGNBA	20~500	20~500	3	±0.5
			5	
			8	
			10	±1
			15	
			20	
SGNA SGNL SGNF SGNAA SGNLA SGNFA	20~500	20~500	2	±0.5
			3	
			5	
			10	±1.5
			30	±2
			50	±3
SGNNF SGNSF	10~500	10~500	10	±1
			30	±2
			50	±3

Characteristics of Sponges

Item	Unit	Polyurethane Sponge	Chloroprene Rubber Sponge	EPDM Sponge	NBR Sponge	Silicon Rubber Sponge			Fluororubber Sponge
						Hs35	Hs22	Hs15	
Apparent Density	g/cm ³	0.022	0.18	0.13	0.21	0.35~0.37	0.35~0.37	0.3	0.45
Air Bubble	-	Continuous Cell	Independent Cell	Independent Cell	Independent Cell	Independent Cell			Independent Cell
Tensile Strength	MPa {kgf/cm ² }	≥0.076 {≥0.77}	0.9 {9}	0.5 {5}	0.8 {8}	1.6~1.8 {16~18}	0.7 {7}	1 {10}	2.7 {27}
Elongation	%	≥120	170	200	200	200~250		250	280
25% Compression Load	MPa {kgf/cm ² }	-	5.3×10 ⁻² {0.54}	3.1×10 ⁻² {0.32}	6.5×10 ⁻² {0.66}	- (*1)		- (*3)	- (*1)
Continuous Use Temperature *2	°C	-10~70	-35~130	-40~130	-10~140	-70~200			-20~230
Abrasion Resistance		◎	○	○	◎	△			◎
Anti-Aging		○	◎	◎	○	◎			◎
Water Resistance		△	○	○	○	○			◎
Chemical Resistance	Oil (Gasoline)	○	○	×	◎	△			◎
	Acid	×	○	×	△~○	△~○			△~○
	Alkali	×	◎	○	○	◎			△~○
	Organic Solvent	×	×	×	×	×			×

For Adhesive Type, the adhesion strength decreases under high temperature (at approx. 80°C or more).

*1 Compression Set <40% During Compression> (100°C/24h) 29%

*2 The temperature of continuous use is the temperature where long-term use does not cause a sharp decline in quality.

*3 Compression Set <40% During Compression> (150°C/24h) 8% (based on JIS K6250)

Standard Type

Part Number		A	Unit Price					
Type	T		B					
			SGNN			SGNS		
			100	400	800	100	400	800
SGNN SGNS	10	100						
		200						
		500						
	30	100						
		200						
		500						
	50	100						
		200						
		500						

Part Number		A	Unit Price	
Type	T		SISP	SISA
SISP SISA	3	100		
		250		
	5	100		
		250		
	10	100		
		250		

SISP and SISA are double side coated.

Configurable Type

The price of this product is the unit price shown in the table multiplied by material multiplier.

(Ex.) Part Number - A - B - T >> (Unit Price) x (Material Multiplier) = Standard Type Unit Price

Part Number	T	A	Unit Price					
			B					
			20~100	110~200	210~300	310~400	410~500	
No Adhesive SGNC (x1.0)	3	20~100						
		110~200		-				
		210~300						
		310~400						
		410~500						
	5	20~100						
		110~200						
		210~300						
		310~400						
		410~500						
	8	20~100						
		110~200						
		210~300						
		310~400						
		410~500						
Adhesive SGNCA (x1.1)	15	20~100						
		110~200						
		210~300						
		310~400						
		410~500						
	20	20~100						
		110~200						
		210~300						
		310~400						
		410~500						
	25	20~100						
		110~200						
		210~300						
		310~400						
		410~500						
Material Multiplier	30	20~100						
		110~200						
		210~300						
		310~400						
		410~500						
	30	20~100						
		110~200						
		210~300						
		310~400						
		410~500						

Configurable Type

Part Number	T	A	Unit Price					
			B					
			10~100	110~200	210~300	310~400	410~500	
No Adhesive SGNNF (x1.0)	10	10~100						
		110~200						
		210~300						
		310~400						
		410~500						
	30	10~100						
		110~200						
		210~300						
		310~400						
		410~500						
	50	10~100						
		110~200						
		210~300						
		310~400						
		410~500						