

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
SGNN	SGNS	SGNNF	SGNSF	Polyurethane Sponge	(Less than Asker C1)	Black
-	-	SGNC	SGNCA	Chloroprene Rubber Sponge	Asker C25	Black
-	-	SGNW	SGNWA	Chloroprene Rubber Sponge	Asker C25	White
-	-	SGNP	SGNPA	EPDM Sponge	Asker C8	Black
-	-	SGNB	SGNBA	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

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

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

Adhesive thickness is 0.14 ~ 0.2mm.

Standard Type

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



Ordering Example

Standard Type
Part Number - A - B
SGNN10 - 100 - 100
SISP10 - 250 - 100

Configurable Type (A≥B)
Part Number - A - B - T
SGNCA - 320 - 220 - 10

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				
25				
30				
SGNA SGNL SGNF SGNAA SGNLA SGNFA	20~500	20~500	2	±0.5
3				
5				
10			±1.5	
10				
10				
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)