

# Sponge Tapes

■ Sponge Tapes of 500mm, 1000mm, 1500mm or 2000mm long.

Type	Material	Hardness	Color
<b>SGNPTA</b>	EPDM Sponge	Asker C8	Black
<b>SGNATA</b>	Silicon Rubber Sponge	Asker C35	Orange
<b>EPATA</b>	EPDM Foam (EPT Sealer®)	(Less than Asker C1)	Black

A Dimension Tolerance		L Dimension Tolerance	
SGNPTA	±1.5	SGNPTA	500 - 1000
SGNATA	±1.5	SGNATA	±3 ±5
EPATA	±2.5	EPATA	500 - 1000    1500 - 2000
			+14                +15
			- 6                 - 8

RoHS ⚠ Temperature limit for seals is 80°C. Characteristic Data P.441

Part Number	T	Tolerance	Selection	
			A	L
<b>SGNPTA</b> <b>SGNATA</b>	3	±0.5	10	500 1000
	5		20	
	10		30	
<b>EPATA</b>	3	±1.0	10	500 1000 1500 2000
	5		15	
	10		20	
	10		30	

Ordering Example: Part Number - A - L  
**SGNPTA3 - 10 - 1000**

Part Number	Type	T	A	Unit Price											
				SGNPTA		SGNATA		EPATA							
				L500	L1000	L500	L1000	L500	L1000	L1500	L2000				
<b>SGNPTA</b> <b>SGNATA</b> <b>EPATA</b>	3	3	10												
			15												
			20												
			30												
			50												
			10												
	5	5	10												
			15												
			20												
			30												
			50												
			10												
10	10	10													
		15													
		20													
		30													
		50													
		10													

## ■ Features of EPATA

This product is made of a semi-closed cell foam, available for compression in the condition of low stress. After compression, it changes its structure to closed cell. This product is a high performance sealer that has the capability of filling gaps to shut out heat, water and sound.

## ■ Characteristic Values

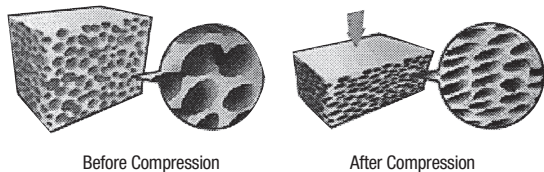
⚠ Testing method conforms to JIS K 6767.

Measurement Item	Unit	EPATA
Specific Gravity	-	0.095
Tensile Strength	kg/cm <sup>2</sup>	0.90
Elongation	%	430
Compression Hardness	25%	0.02
	50%	0.05
Air Bubble	-	Semi-closed Cell

Compression Rate (%)	EPATA
50	×
60	△
70	○
80	○

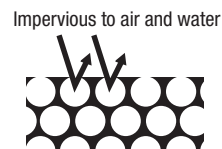
○ : No leakage of water after 30 mins.  
 △ : Leakage of water is seen within 30mins.  
 × : Leakage of water is seen within 10mins.

## • Semi-closed Cell Structure (EPATA)



## ■ Features of Closed Cell Type (SGNPTA and SGNATA)

Bubbles are separated from each other, so air and water cannot pass through the material. It also excels in shock absorption.



# Round Cords - Sealing Elastomer, Round Rubber Rings

■ A new gel type gasket material useable for a variety of applications such as gap filling.

Type	Material	Hardness	Color
<b>RBGEL</b>	Viscoelastic Elastomer	Asker F65	Light Yellow

Operating Temperature Range: -10 ~ 70°C.  
 Gel surface is coated with fluoride powder to prevent sticking.  
 It is delivered in a roll.  
 It can be cut with adhesive side up with a utility knife, etc.

Part Number Type    L Selection (mm)  
**RBGEL** (Viscoelastic Elastomer)  
 2    500  
 5    1000  
 10    1500

Ordering Example: Part Number - L  
**RBGEL5 - 500**

Part Number	Type	D	L Selection (mm)	Unit Price		
				500	1000	1500
<b>RBGEL</b>		2	500			
		5	1000			
		10	1500			

## ■ Viscoelastic Elastomer

Viscoelastic elastomer is an extremely soft gel which has an Asker F hardness. Superior in mechanical strength and excellent in durability. A major characteristic is the three-dimensional slow recovery, which recovers after compression slowly and in multiple directions. It is adaptable to a variety of uses such as gaskets for sealing.

## ■ Elasticity of Viscoelastic Elastomer

A very soft and elastic material, as shown in the photo. (Elongation Rate: 2,000% or More) Due to its excellent shape flexibility, it easily conforms to complex shapes. Cutting surface has self-adhesion.



## ■ Comparison of Characteristic Values

Item	Viscoelastic Elastomer	Nitrile Rubber	Silicon Rubber
Specific Gravity	0.9	1.6	1.2
Hardness	65 (Asker F)	70 (Shore A)	50 (Shore A)
Tensile Strength (Mpa)	0.17	12.7	8.8
Elongation (%)	>2000	370	330
Maximum Operating Temperature	70	90	200
Low Temp. Resistance	-10	-10	-70

## ■ Comparison of Chemical Resistance

	Viscoelastic Elastomer	Nitrile Rubber	Silicon Rubber
Gasoline Light Oil	×	○	△-○
Water	○	○	△
Strong Acid	○	○	△
Strong Alkali	○	○	○
Ether	×	×-△	△

⚠ Do not use in places where there may be splashes of solvent.

## ■ Round Rubber Rings

Type	Material	Hardness	Color
<b>RBWNR</b>	Nitrile Rubber (NBR)	Shore A70	Black
<b>RBWSR</b>	Silicon Rubber (SI)	Shore A53	Milky White
<b>RBWFR</b>	Fluororubber (FPM)	Shore A76	Black

RoHS

Type	Material	Hardness	Color
<b>RBWNR</b>	Nitrile Rubber (NBR)	Shore A70	Black
<b>RBWSR</b>	Silicon Rubber (SI)	Shore A53	Milky White
<b>RBWFR</b>	Fluororubber (FPM)	Shore A76	Black

## ■ Vulcanized Bonded Product

A rubber cord is cut to desired lengths and made into rings by vulcanized bonding. Bonded seam is polished by sandpaper. Most suitable for use as general-purpose gasket.

⚠ Not compliant with JIS Standard O ring.  
 ⚠ Avoid using as a belt.

Part Number	Type	D	1mm Increment	
			L (Unfolded Length)	
<b>RBWNR</b> (Nitrile) <b>RBWSR</b> (Silicon) <b>RBWFR</b> (Fluorine)		2	300-400	
		3		
		4		
		5		
		10		

Accuracy Standards				
L Dimension Tolerance				
1000mm or Less	2000mm or Less	3000mm or Less	4000mm or Less	
0	0	0	0	
-1.0	-2.0	-3.0	-4.0	


Part Number	Type	D	Dimension Tolerance	Unit Price																				
				L (Expanded Length) 1mm Increment																				
				300-600	601-1000	1001-1300	1301-1600	1601-2000	2001-2300	2301-2600	2601-3000	3001-3300	3301-3600	3601-4000										
<b>RBWNR</b> Nitrile Rubber		2	±0.2																					
		3	±0.3																					
		4	±0.4																					
		5	±0.4																					
		10	±0.6																					
<b>RBWSR</b> Silicon Rubber		2	±0.1																					
		3	±0.1																					
		4	±0.15																					
		5	±0.15																					
		10	±0.3																					
<b>RBWFR</b> Fluororubber		2	±0.2																					
		3	±0.2																					
		4	±0.3																					
		5	±0.3																					
		10	±0.5																					

Ordering Example: Part Number - L  
**RBWNR2 - 525**  
**RBWFR10 - 3301**

# Round Cords, Square Cords

## Rubber, Rubber Sponge

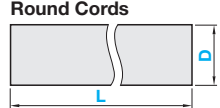
Rubber-Sponge strings for various applications such as gap gasket.

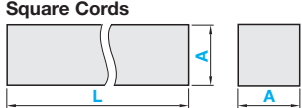


Round Cords	Square Cords	Material	Hardness	Color
RBWN	RBKWN	Nitrile Rubber (NBR)	Shore A66	Black
RBWS	RBKWS	Silicon Rubber (SI)	Shore A50	Milky White
RBWF	-	Fluororubber (FPM)	Shore A69	Black
RBWCS	RBKWCS	Chloroprene Rubber Sponge	Asker C20	Black
RBWSS	RBKWSS	Silicon Rubber Sponge	Asker C25	Orange
RBWFS	-	Fluororubber Sponge	Asker C35	Black

**Accuracy Standards**

L Dimension Tolerance	Tolerance
200 or Less	±1.5
201-400	±2.0
401 or More	±3.5

**Round Cords** 

**Square Cords** 

Round Cords				Square Cords				Round Cords (Sponge Type)				Square Cords (Sponge Type)			
Part Number	Type	1mm Increment	L Selection (Meter)	Part Number	Type	1mm Increment	L Selection (Meter)	Part Number	Type	1mm Increment	L Selection (Meter)	Part Number	Type	1mm Increment	L Selection (Meter)
RBWN	(Nitrile)	20-999	1M	RBKWN	(Nitrile)	20-999	1M	RBWCS	(Chloroprene Sponge)	20-999	1M	RBKWCS	(Chloroprene Sponge)	20-999	1M
RBWS	(Silicon)	20-999	3M	RBKWS	(Silicon)	20-999	3M	RBWSS	(Silicon Sponge)	20-999	3M	RBKWSS	(Silicon Sponge)	20-999	3M
RBWF	(Fluorine)	20-999	5M			20-999	5M	RBWFS	(Fluoro Sponge)	20-999	5M			20-999	5M
			10M				10M				10M				10M

**Ordering Example**  
 Part Number - L  
 RBWN2 - 250  
 RBKWN15 - 1M

The price of this product is the unit price shown in the table multiplied by material multiplier.  
 (Ex.) Part Number - L >> (Unit Price) x (Material Multiplier) = Standard Type Unit Price  
 RBWS2 - 250

Part Number	Type	D Dimension Tolerance	Unit Price													
			L Selection (Meter)								1mm Increment					
			20-100	101-200	201-300	301-600	601-800	801-999	1M	3M	5M	10M				
RBWN	(x1.0) Nitrile	2	±0.35													
RBWS	(x1.5) Silicon	4	±0.5													
RBWF	(x1.5) Fluorine	5	±0.5													
		6	±0.5													
		7	±0.5													
		8	±0.5													
		9	±0.5													
		10	±0.8													
		12	±1.0													
		15	±1.0													

Material multiplier for RBWF may vary depending on D dimensions.

Part Number	Type	A Dimension Tolerance	Unit Price													
			L Selection (Meter)								1mm Increment					
			20-100	101-200	201-300	301-600	601-800	801-999	1M	3M	5M	10M				
RBKWN	(x1.0) Nitrile	5	±0.5													
RBKWS	(x1.5) Silicon	6	±0.8													
		8	±0.8													
		10	±1.0													
		12	±1.0													
		15	±1.0													

Part Number	Type	D Dimension Tolerance	Unit Price				
			L Selection (Meter)				
			1M	3M	5M	10M	
RBWCS	(x1.0) Chloroprene Sponge	3	±1.0				
RBWSS	(x1.5) Silicon Sponge	4	±1.0				
		5	±1.0				
		6	±1.0				
		7	±1.0				
		8	±1.0				
		9	±1.0				
		10	±2.0				
		12	±2.0				
		15	±2.0				

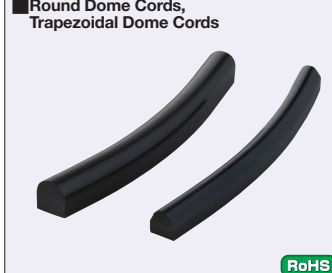
Fluoro Sponge is selectable from D=5, 6, 8 or 10.  
 Fluoro Sponge Price has been revised due to the price list integration.

Part Number	Type	A Dimension Tolerance	Unit Price				
			L Selection (Meter)				
			1M	3M	5M	10M	
RBKWCS	(x1.0) Chloroprene Sponge	5	±1.0				
RBKWSS	(x1.5) Silicon Sponge	6	±1.0				
		8	±1.0				
		10	±2.0				
		12	±2.0				
		15	±2.0				

# Round Dome Cords, Trapezoidal Dome Cords

## Rubber, Rubber Sponge

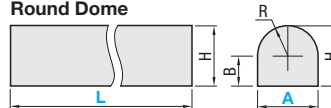
Can be used for gaskets on door openings in order to enhance air-tightness or to prevent twists.

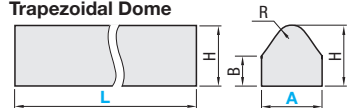


Round Dome	Trapezoidal Dome	Material	Hardness	Color
KMHN	KYHN	Nitrile Rubber (NBR)	Shore A70	Black
KMHS	KYHS	Silicon Rubber (SI)		Red Brown
KMHF	KYHF	Fluororubber (FPM)	Asker C20	Black
KMHNS	-	Chloroprene Rubber Sponge		Black
KMHSS	-	Silicon Rubber Sponge	Asker C25	Orange

**Accuracy Standards**

L Dimension Tolerance	Tolerance
200 or Less	±1.5
201-400	±2.0
401 or More	±3.5

**Round Dome** 

**Trapezoidal Dome** 

Round Dome				Trapezoidal Dome				Round Dome (Sponge Type)			
Part Number	Type	1mm Increment	L Selection (Meter)	Part Number	Type	1mm Increment	L Selection (Meter)	Part Number	Type	1mm Increment	L Selection (Meter)
KMHN	(Nitrile)	20-999	1M	KYHN	(Nitrile)	20-999	1M	KMHNS	(Chloroprene Sponge)	20-999	1M
KMHS	(Silicon)	20-999	3M	KYHS	(Silicon)	20-999	3M	KMHSS	(Silicon Sponge)	20-999	3M
KMHF	(Fluorine)	20-999	5M			20-999	5M			20-999	5M
			10M				10M				10M

Part Number	Type	A Dimension Tolerance	B	H	R	Unit Price										
						L Selection (Meter)										
						20-100	101-200	201-300	301-600	601-800	801-999	1M	3M	5M	10M	
KMHN	(x1.0) Nitrile	8	4	8	4											
KMHS	(x1.5) Silicon	10	5	10	5											
KMHF	(x1.5) Fluorine	12	6	12	6											
		15	7.5	15	7.5											
		16	8	16	8											

Material Multiplier for Fluororubber KMHF: When A=8, 10 or 12, (Unit Price x4.0). When A=15 or 16, (Unit Price x5.0).

Part Number	Type	A Dimension Tolerance	B	H	R	Unit Price										
						L Selection (Meter)										
						20-100	101-200	201-300	301-600	601-800	801-999	1M	3M	5M	10M	
KYHN	(x1.0) Nitrile	8	4	8	2.8											
KYHS	(x1.5) Silicon	10	5	10	2.8											
KYHF	(x1.5) Fluorine	12	6	12	3											
		16	8	16	4											
		20	10	20	5											

Material Multiplier for Fluororubber KMHF: When A=8, 10 or 12, (Unit Price x4.0). When A=15 or 16, (Unit Price x5.0).

Part Number	Type	A Dimension Tolerance	B	H	R	Unit Price			
						L Selection (Meter)			
						1M	3M	5M	10M
KMHNS	(x1.0) Chloroprene Sponge	10	5	10	5				
KMHSS	(x1.5) Silicon Sponge	15	2.5	10	7.5				
		15A	7.5	15	7.5				
		20	10	20	10				

**Ordering Example**  
 Part Number - L  
 KMHN8 - 250  
 KMHN15 - 10M

The price of this product is the unit price shown in the table multiplied by material multiplier.  
 (Ex.) Part Number - L >> (Unit Price) x (Material Multiplier) = Standard Type Unit Price  
 KMHS8 - 20