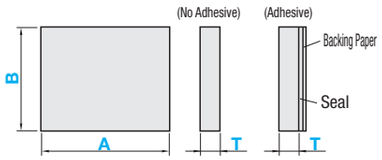
Antistatic Sponge Sheets

Polyethylene Foam, Polyurethane Rubber Sponge, Chloroprene Rubber Sponge

Spec.Change Printed in Purple

No Adhesive	Adhesive	Material
LBA	LBAA	Main Body: Conductive Polyethylene Foam
LBRA	LBRAA	



Accuracy Standards

LBA / LBAA

• T Dimension Tolerance

T	3	5~15	20, 30	40
	±0.3	±0.5	±0.8	±1.0

• Dimension Tolerance of A and B

±0.1 (However, A and B dimension tolerance of T40 is ±0.5)

LBRA / LBRAA

• T Dimension Tolerance

T	1	3	5, 10	20
	±0.2	±0.3	±0.5	±0.8

• Dimension Tolerance of A and B

±0.5 (However, A and B dimension tolerance of T20 is ±1.0)

Part Number	10mm Increment		Selection T	
	A	B	LBA, LBAA	LBRA, LBRAA
No Adhesive **LBA** **LBRA** Adhesive **LBAA** **LBRAA**	20~800 (A500 or Less for the Adhesive Type)	20~500	3 5 10 15 20 30 40	1 3 5 10 20

Conductive Sponge Characteristics

•LBA(LBAA)
LBA has high conductivity using special conductive carbon black, and it is made up of uniform and tiny open cells. Carbon is completely compounded with polyethylene so that it neither crumble nor bonds, can be extensively used for wrapping materials of various IC products.

•LBRA(LBRAA)
LBRA is more flexible than LBA and suited for use as wrapping or cushioning material for products that require static protection. As its foaming agent is nitrogen gas, LBRA does not have any harmful effect on precision products by gas contamination.

* Seals are not conductive.

(?)A≥B
(?)Only T20 or less for Adhesive Type.

Part Number	T	A	Unit Price B				
			20~100	110~200	210~300	310~400	410~500
No Adhesive **LBA** / Adhesive **LBAA** (T3~20 for Adhesive Type, A20~500)	3	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	5	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	10	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	15	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	20	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	30	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	40	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					

Part Number	T	A	Unit Price B				
			20~100	110~200	210~300	310~400	410~500
No Adhesive **LBRA** / Adhesive **LBRAA** (A500 or Less for the Adhesive Type)	1	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	3	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	5	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	10	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					
	20	20~100		-	-	-	-
		110~200			-	-	-
		210~300				-	-
		310~400					-
		410~500					
		510~600					
		610~700					
		710~800					

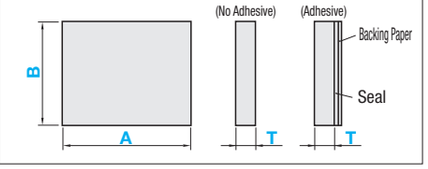
Adhesive Charge

A Dimension	Charge
20~100	
110~200	
210~300	
310~400	
410~500	

(?)For the Adhesive Type prices, add A dim. corresponding additional charges on the left table to the Unit Price shown on the list above.

(Ex.) Part Number - A - B - T >> (Standard Type Unit Price)+ (Adhesive Charge) = Adhesive Type Charge
LBAA - 500 - 100 - 3

No Adhesive	Adhesive	Material	Color
LBNJ	LBNJA	Main Body: Conductive Polyurethane Rubber Sponge	Black
LBNC	LBNCA	Main Body: Conductive Chloroprene Rubber Sponge	Black



Accuracy Standards

LBNJ / LBNJA

• T Dimension Tolerance

T	5	10~20
	±0.5	±1.5

• Dimension Tolerance of A and B

A, B	200mm or Less	201~300	301~500
	±1.5	±2.0	±3.0

LBNC / LBNCA

• T Dimension Tolerance

T	3・5	10~20
	±0.5	±1.5

• Dimension Tolerance of A and B

A, B	200mm or Less	201~300	301~500
	±1.5	±2.0	±3.0

Part Number	10mm Increment		T Selection
	A	B	
Polyurethane Rubber Sponge **LBNJ** (No Adhesive) **LBNJA** (Adhesive) Chloroprene Rubber Sponge **LBNC** (No Adhesive) **LBNCA** (Adhesive)	20~500	20~500	(3) 5 10 15 20

Conductive Sponge Characteristics

•LBNJ(LBNJA)
Made of polyurethane, it excels in shock-absorbing properties. Moreover, compression residual distortion is small.

•LBNC(LBNCA)
Similar to chloroprene rubber sponge, this material has well-balanced properties such as oil resistance and weather resistance. It excels in general physical properties, and is suitable for a wide range of general industrial applications.

* Seals are not conductive.

(?)A≥B
(?)T3 is for LBNC and LBNCA only.

Part Number	T	A	Unit Price								
			LBNJ, LBNJA					LBNC, LBNCA			
			B20~100	B110~200	B210~300	B310~400	B410~500	B20~100	B110~200	B210~300	B310~400	B410~500
Polyurethane Rubber Sponge **LBNJ** (No Adhesive) / **LBNJA** (Adhesive)	3	20~100	-	-	-	-	-		-	-	-	-
		110~200	-	-	-	-	-		-	-	-	-
		210~300	-	-	-	-	-				-	-
		310~400	-	-	-	-	-					-
		410~500	-	-	-	-	-					
	5	20~100		-	-	-	-		-	-	-	-
		110~200			-	-	-			-	-	-
		210~300				-	-				-	-
		310~400					-					-
		410~500										
	10	20~100		-	-	-	-		-	-	-	-
		110~200			-	-	-			-	-	-
		210~300				-	-				-	-
		310~400					-					-
		410~500										
Chloroprene Rubber Sponge **LBNC** (No Adhesive) / **LBNCA** (Adhesive)	15	20~100		-	-	-	-		-	-	-	-
		110~200			-	-	-			-	-	-
		210~300				-	-				-	-
		310~400					-					-
		410~500										
	20	20~100		-	-	-	-		-	-	-	-
		110~200			-	-	-			-	-	-
		210~300				-	-				-	-
		310~400					-					-
		410~500										

Adhesive Charge

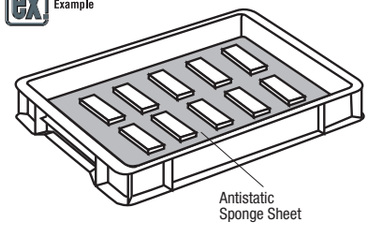
A Dimension	Charge
20~100	
110~200	
210~300	
310~400	
410~500	

(?)For the Adhesive Type prices, add A dim. corresponding additional charges on the left table to the Unit Price shown on the list above.

(Ex.) Part Number - A - B - T >> (Standard Type Unit Price) + (Adhesive Charge)= Adhesive Type Charge
LBNCA - 200 - 100 - 5

Ordering Example: Part Number - A - B - T
LBNC - 200 - 100 - 5

Example



Physical Properties

Measurement Item		Testing Method	Unit	LBA(A)	LBRA(A)	LBNJ(A)	LBNC(A)
Specific Volume Resistivity		SRIS 2301	Ω・cm	$1.0x10^4$ or Less	$1.0x10^4$ or Less	$4x10^5$	$4x10^4$
Surface Resistivity		ASTM D 257	Ω	$1.0x10^4$ or Less	$3.0x10^4$ or Less	$1x10^6$	$9x10^4$
Density		JIS K 6767	g/cm^3	0.068	0.050	0.03	0.19
Hardness		SRIS 0101	Asker C	45	45	<5	15
Tensile Strength		JIS K 6767	kg/cm^2	8.0	3.7	1.0	5.0
Elongation		JIS K 6767	%	63	66	190	150
Tear Strength		JIS K 6767	kg/cm	3.0	1.6	0.8	5.2
Compression Strength	(25%)	JIS K 6767	kg/cm^2	2.0	0.8	-	0.8
	(10%)	JIS K 9514	kg/cm^2	1.6	0.6	-	0.7
Compression Set (25%)		JIS K 6767	%	2.8	2.4	4.3	20
Dimension Change under Heat		JIS K 6767	%	-0.8	-0.6	-	-2.0