

# Antistatic Sponge Sheets

## Polyurethane & Chloroprene Rubber Sponge

Antistatic Sponge Sheets – Polyurethane & Chloroprene Rubber Sponge

No Adhesive	Adhesive	Material	Color
LBNC	LBNCA	Body: Conductive Chloroprene Rubber Sponge	Black

Part Number Example: LBNC - 200 - 100 - 5

### Conductive Sponge Characteristics

– LBNC (LBNCA)  
Similar with 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.

### Physical Properties

Measurement Item	Testing Method	Unit	LBNC(A)	
Volume Resistivity	JIS K 6911	$\Omega$ -cm	$10^5$ or less	
Surface Resistivity	JIS K 6911	$\Omega$	$10^5$ or less	
Density	JIS K 6767	g/cm <sup>3</sup>	0.19	
Hardness	SRIS 0101	Asker C	15	
Tensile Strength	JIS K 6767	kg/cm <sup>2</sup>	5	
Elongation	JIS K 6767	%	150	
Tear Strength	JIS K 6767	kg/cm	5.2	
Compression Strength	-25%	JIS K 6767	kg/cm <sup>2</sup>	0.8
	-10%	JIS K 9514	kg/cm <sup>2</sup>	0.7
Compression Set (25%)	JIS K 6767	%	20	
Dimension Change under Heat	JIS K 6767	%	-2	

The values given are for reference only and are not guaranteed.

Part Number	T	A	Available Types				
			B20-100	B110-200	B210-300	B310-400	B410-500
Chloroprene Rubber Sponge LBNC (No Adhesive) LBNCA (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	•	•	•	•	•
15	20-100	•	—	—	—	—	
	110-200	•	•	—	—	—	
	210-300	•	•	•	—	—	
	310-400	•	•	•	•	—	
	410-500	•	•	•	•	•	
20	20-100	•	—	—	—	—	
	110-200	•	•	—	—	—	
	210-300	•	•	•	—	—	
	310-400	•	•	•	•	—	
	410-500	•	•	•	•	•	

Part Number	10mm Increment		T Selection
	A	B	
Chloroprene Rubber Sponge			3 5
LBNC (No Adhesive)	20-500	20-500	10
LBNCA (Adhesive)			15 20

A=B

### Accuracy Standards

Part Number	T Dimension Tolerance
LBNC	T 3, 5 10-20 ±0.5 ±1.5
LBNCA	±0.5 ±1.5
Dimension Tolerance of A & B	
A, B 200mm or Less	201-300 301-500 ±1.5 ±2.0 ±3.0
LBA	T Dimension Tolerance
LBAA	T 3 5-15 20, 30 40 ±0.3 ±0.5 ±0.8 ±1.0
Dimension Tolerance of A & B	
	±0.1 (However, A and B dimension tolerance of T40 is ±0.5)
LBRA	T Dimension Tolerance
LBRAA	T 1 3 5, 10 20 ±0.2 ±0.3 ±0.5 ±0.8
Dimension Tolerance of A & B	
	±0.5 (However, A and B dimension tolerance of T20 is ±1.0)

# Antistatic Sponge Sheets

## Polyethylene Foam

Antistatic Sponge Sheets – Polyethylene Foam

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

Part Number Example: LBRA - 200 - 100 - 5

Part Number	T	A	Available Types				
			B20-100	B110-200	B210-300	B310-400	B410-500
No Adhesive LBRA	1	20-100	•	—	—	—	—
		110-200	•	•	—	—	—
		210-300	•	•	•	—	—
		310-400	•	•	•	•	—
		410-500	•	•	•	•	•
	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	•	•	•	•	•	
20	20-100	•	—	—	—	—	
	110-200	•	•	—	—	—	
	210-300	•	•	•	—	—	
	310-400	•	•	•	•	—	
	410-500	•	•	•	•	•	

Application Example

### 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 it will neither crumble nor bond. It 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. It is suitable for a wide range of general industrial applications.

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

A=B Only T20 or less for Adhesive Type.

Part Number	T	A	Available Types				
			B20-100	B110-200	B210-300	B310-400	B410-500
No Adhesive LBA	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	•	•	•	•	•
15	20-100	•	—	—	—	—	
	110-200	•	•	—	—	—	
	210-300	•	•	•	—	—	
	310-400	•	•	•	•	—	
	410-500	•	•	•	•	•	
20	20-100	•	—	—	—	—	
	110-200	•	•	—	—	—	
	210-300	•	•	•	—	—	
	310-400	•	•	•	•	—	
	410-500	•	•	•	•	•	

### Physical Properties

Measurement Item	Testing Method	Unit	LBA(A)	LBRA(A)	
Volume Resistivity	JIS K 6911	$\Omega$ -cm	$10^5$ or less	$10^4$ or less	
Surface Resistivity	JIS K 6911	$\Omega$	$10^5$ or less	$10^5$ or less	
Density	JIS K 6767	g/cm <sup>3</sup>	0.068	0.05	
Hardness	SRIS 0101	Asker C	45	45	
Tensile Strength	JIS K 6767	kg/cm <sup>2</sup>	8	3.7	
Elongation	JIS K 6767	%	63	66	
Tear Strength	JIS K 6767	kg/cm	3	1.6	
Compression Strength	-25%	JIS K 6767	kg/cm <sup>2</sup>	2	0.8
	-10%	JIS K 9514	kg/cm <sup>2</sup>	1.6	0.6
Compression Set (25%)	JIS K 6767	%	2.8	2.4	
Dimension Change under Heat	JIS K 6767	%	-0.8	-0.6	

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