

ESD-Safe Part Bins

Protect parts from the damaging effects of static electricity.

ESD-Safe Part Bins are permanently molded in conductive material for use in cleanrooms and workstations. Combine Part Bins with ESD-Safe Metal Storage Systems to meet your work-in-process requirements. Contact your LEWISBins+ sales representative for more information on ESD-Safe Metal Storage Systems. Note: PB50 is not designed for use on hanging systems.



- > 8 sizes available.
- > Label insert area for easy identification.
- > Smooth gravity flow interior optimizes parts accessibility.
- > "X" designates molded-in dividers. Available on 6 models.
- > Bins hang on most louvered panels or rails.
- > Note: PB50 is not designed for use on hanging systems.

ESD-Safe Part Bins

Container	Outside Dimensions (in)			Inside Dimensions (in)		Hopper Height	Weight	Carton	Flat Label ID Area (in)		Solid
Model	L	W	Н	L	W	(in)	(lb)	Quantity	W	н	Covers
PB10	3.5	4.0	2.0	3.0	3.4	1.1	0.2	24	3.0	0.8	CPB10*
PB10x (with divider)	3.5	4.0	2.0	3.0	3.4	1.1	0.3	24	3.0	0.8	CPB10*
PB20	7.0	4.0	2.9	6.0	3.4	1.6	0.3	24	3.0	1.0	CPB20
PB20x (with divider)	7.0	4.0	2.9	6.0	3.4	1.6	0.3	24	3.0	1.0	CPB20
PB22	6.6	8.8	2.9	6.0	8.1	1.6	0.6	12	2.5	7.5	CPB22*
PB22x (with divider)	6.6	8.8	2.9	6.0	8.1	1.6	0.6	12	2.5	7.5	CPB22*
PB30	9.5	5.8	5.0	8.4	5.0	2.6	0.7	12	3.0	1.0	CPB30
PB30x (with divider)	9.5	5.8	5.0	8.4	5.0	2.6	0.8	12	3.0	1.0	CPB30
PB31	9.3	8.8	5.0	8.4	8.0	2.5	0.9	8	3.0	1.0	N/A
PB31x (with divider)	9.3	8.8	5.0	8.4	8.0	2.5	1.1	8	3.0	1.0	N/A
PB40	12.8	8.1	6.0	11.8	7.1	3.1	1.5	12	3.0	1.0	N/A
PB41	12.8	11.4	6.0	11.8	10.5	3.1	1.6	12	3.0	1.0	N/A
PB41x (with divider)	12.8	11.4	6.0	11.8	10.5	3.1	1.9	12	3.0	1.0	N/A
PB50	18.5	11.6	7.1	17.1	10.8	3.8	2.4	6	3.0	1.0	N/A

XL Conductive Available Stocked Material:

* Available on a make-to-order basis. Note: Other ESD-safe materials available on a

make-to-order basis. Please call for information.

> Solid covers are available to further protect parts by creating a Faraday Cage.

Distributed by: All-Spec Industries

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Part Bins | Divider Boxes | Shelf Bins | Hopper Containers | Wire Shelving | Storage Systems

LEWISBins+ manufactures plastic part bins, divider boxes and heavy duty storage totes, which integrate with metal storage systems and wire products. These products reduce linear workspace, improve assembly operations and reduce product damage, for total cost reduction in a single operation or entire supply chain. For more information, please visit www.lewisbins.com.

ESD-Safe Products

Organize work areas to efficiently store components, assemblies and circuit boards.

LEWISBins+ ESD materials conform to ANSI/ESD S20.20* 2007 requirements for ESD packaging. This standard requires conductive materials surface resistance to be $<1.0 \times 10^4$ ohms and dissipative materials to be $>1.0 \times 10^4$ ohms to $<1.0 \times 10^1$ ohms when tested per EOS/ESD S11.11. The materials also conform to the static decay requirement of FTM-101B, Method 4046.1 dissipating a 5,000 volt charge to 0 when grounded in less than two seconds. Contact your LEWISBins+ sales representative for more details on other dissipative materials that are available.



ESD-Safe Materials									
	Test Method	Conductive Material	Dissipative Materials						
Property	Units	XL	LS	SD SMC					
Surface Resistivity	ASTM D257	< 1.0 x 10 ⁵	>= 1.0 x 10 ⁹	>= 1.0 x 10 ⁵					
	(ohms/square)	< 1.0 x 10 ¹²	<= 5.0 x 10 ⁹						
Surface Resistance	EOS/ESD	< 1.0 x 10 ⁴	>= 1.0 x 10 ⁸	>= 1.0 x 10 ⁴					
	S11.11 (ohms)		< 1.0 x 10 ¹¹	<= 5.0 x 10 ⁸					
Static Decay	FTM-101B	< 2 seconds	< 2 seconds	< 2 seconds					
	Method 4046.1								
	(seconds)								
Temperature Range	°F	40°F to 225°F	40°F to 225°F	-60°F to 250°F					

ESD-Safe Products are ideal for:

- > Electronics
- > Telecommunications
- > Computers

Note: At upper end of temperature range intermittent use is recommended.

*Note: The following ESD-safe material types are available for specific products only. All ESD-safe products are NOT available in all of the following material types.

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ESD-Safe Products

Protect valuable contents from costly electrostatic discharge (ESD) and static electricity

*Note: The following ESD-safe material types are available for specific products only. All ESD-safe products are NOT available in all of the following material types.

Conductive Material - XL Material is a thermoplastic polypropylene material based upon carbon black that has a surface resistance of less than 1.0 x 10⁴ ohms or surface resistivity of < 1.0 x 10⁵ ohms/square. XL material has a static decay rate from 5,000 volts to 0 of less than two seconds. This material has a useful temperature range of 40°F to 225°F, with intermittent use recommended at the higher end of the temperature range. The electrical properties of this material are permanent and unaffected by washing. ***XL Material is available in the following: parts bins, shelf bins, divider boxes, and dollies.**

Dissipative Material - LS Material is a polypropylene material that is on upper end of the dissipative range. The material has a surface resistance greater than or equal to $1.0 \times 10^{\circ}$ ohms, but less than 1.0×10^{11} ohms or surface resistivity greater than or equal to $1.0 \times 10^{\circ}$ ohms/square, but less than 1.0×10^{12} ohms/square. LS material has a static decay rate from 5,000 volts to 0 of less than two seconds. This material has a useful temperature range of 40°F to 225°F, with intermittent use recommended at the higher end of the temperature range. Electrical properties are affected by humidity. This material is available on a made-to-order basis only. ***LS Material is used for Snap-On Cardholders.**

Dissipative Material - SD SMC Material is a thermoset polyester based material that is on the lower end of the dissipative range. The material has a surface resistance greater than or equal to 1.0 x 10⁴, but less than or equal to 5.0 x 10⁸ ohms/square and a surface resistivity greater than or equal to 1.0 x 10⁵ ohms/square, but less than or equal to 5.0 x 10⁹ ohms/square. This material has a useful temperature range of -60°F to 250°F, is autoclavable and does not melt at high temperatures making it ideal for handling hot parts. The electrical properties of this material are permanent and unaffected by washing. ***SD SMC Material is available in the Asssembly Tray line only.**



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All specifications are approximate and subject to change without notice.