

# 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.



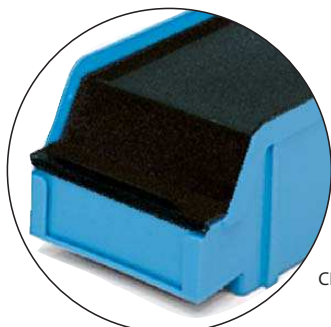
- > 8 sizes available.
- > Label insert area for easy identification.
- > Smooth gravity flow interior optimizes parts accessibility.
- > "X" designates molded-in dividers. Available on 6 models.
- > Bins hang on most louvered panels or rails.
- > Note: PB50 is not designed for use on hanging systems.

## ESD-Safe Part Bins

Container Model	Outside Dimensions (in)			Inside Dimensions (in)		Hopper Height (in)	Weight (lb)	Carton Quantity	Flat Label ID Area (in)		Solid Covers
	L	W	H	L	W				W	H	
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

Available Stocked Material: ● XL Conductive

\* Available on a make-to-order basis.  
Note: Other ESD-safe materials available on a make-to-order basis. Please call for information.



CPB20

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

**Distributed by: All-Spec Industries**  
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# 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  $<1.0 \times 10^{11}$  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				
Property	Test Method Units	Conductive Material	Dissipative Materials	
		XL	LS	SD SMC
Surface Resistivity	ASTM D257 (ohms/square)	$< 1.0 \times 10^5$ $< 1.0 \times 10^{12}$	$\geq 1.0 \times 10^9$ $\leq 5.0 \times 10^9$	$\geq 1.0 \times 10^5$
Surface Resistance	EOS/ESD S11.11 (ohms)	$< 1.0 \times 10^4$	$\geq 1.0 \times 10^8$ $< 1.0 \times 10^{11}$	$\geq 1.0 \times 10^4$ $\leq 5.0 \times 10^8$
Static Decay	FTM-101B Method 4046.1 (seconds)	$< 2$ seconds	$< 2$ seconds	$< 2$ seconds
Temperature Range	°F	40°F to 225°F	40°F to 225°F	-60°F to 250°F

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

ESD-Safe Products are ideal for:

- > Electronics
- > Telecommunications
- > Computers

**\*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  $1.0 \times 10^4$  ohms or surface resistivity of  $< 1.0 \times 10^5$  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  $1.0 \times 10^8$  ohms, but less than  $1.0 \times 10^{11}$  ohms or surface resistivity greater than or equal to  $1.0 \times 10^9$  ohms/square, but less than  $1.0 \times 10^{12}$  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  $1.0 \times 10^4$ , but less than or equal to  $5.0 \times 10^8$  ohms/square and a surface resistivity greater than or equal to  $1.0 \times 10^5$  ohms/square, but less than or equal to  $5.0 \times 10^9$  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 Assembly Tray line only.**



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