

# 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.



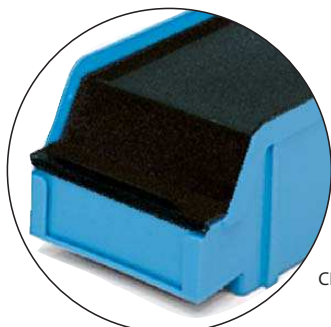
- > 8 sizes available.
- > Label insert area for easy identification.
- > Smooth gravity flow interior optimizes parts accessibility.
- > "X" designates molded-in dividers. Available on 6 models.
- > Bins hang on most louvered panels or rails.
- > Note: PB50 is not designed for use on hanging systems.

## 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)          | $< 1.0 \times 10^5$<br>$< 1.0 \times 10^{12}$ | $\geq 1.0 \times 10^9$<br>$\leq 5.0 \times 10^9$ | $\geq 1.0 \times 10^5$                           |
| Surface Resistance  | EOS/ESD S11.11 (ohms)            | $< 1.0 \times 10^4$                           | $\geq 1.0 \times 10^8$<br>$< 1.0 \times 10^{11}$ | $\geq 1.0 \times 10^4$<br>$\leq 5.0 \times 10^8$ |
| 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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