



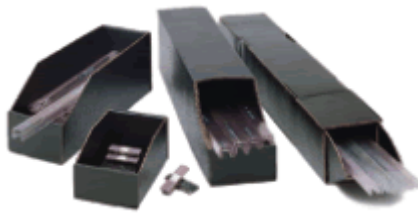
# Ground Zero Electrostatics ESD CONTAINERS AND BINS

## ESD CONTAINERS AND BINS



**GZ** Containers are vacuum formed from sheets of High Density Polyethylene. The containers are impervious to oils, most chemicals, rot, solvents, and temperature extremes. Vacuum forming produces a stress free container with maximum resistance to cracking from impact and other environmental conditions. Our complete Ground Zero line is available in high performance ESD materials (both static dissipative and conductive) as well as standard High Density Polyethylene. For years our containers have been trusted by major electronics, computer and telecommunications firms for handling of their sensitive electronic components. Nesting boxes have tapered sides. When empty, they nest into each other and save space. (See figure.) A Stacking box has little or no taper. It has projections to hold another box stacked on top without resting on the contents inside the box.

## ZeroStat Bins



- ☀ Static Shielding
- ☀ Economical
- ☀ Durable
- ☀ Eliminate Bagging

ZeroStat Bins provide ESD protection in plant for DIP tubes, IC's and other components. Available in open, stackable and hopper styles. ZeroStat bins are an economical method for completing your static control program with a static shielding storage system. Save costs vs. static shielding bags.

## ESD SHIPPERS



## ZeroPak Shippers

- ☀ Static Shielding
- ☀ Physical Protection
- ☀ No Shielding Bag Needed
- ☀ No Tooling
- ☀ Labor Savings

ZeroPak Shippers are acceptable at static safe workstations, allowing the package to comply with your ESD program guidelines. ZeroPak is made from 200 Lb. 'B' flute conductive corrugated. Static dissipative convoluted urethane foam, shipped loose in mailer, provides cushioning. Consult Ground Zero for stock sizes, custom sizes or custom inserts from plastic to corrugated.





## Ground Zero Electrostatics ESD CONTAINERS AND BINS



### Conductive Fluted Plastic Totes and Shippers

Conductive fluted plastic is manufactured from carbon-loaded polypropylene resin specifically formulated for ESD protection. Its distinct construction provides superior cushioning, vibration and shock dampening. CFP is a durable, reusable material that will not lose its shielding and static charge decay properties over time. Your company will reduce replacement costs as well as the labor costs of assembly and / or bagging.

CFP materials meet EIA 541 guidelines and the electrostatic decay requirements of MIL B 81705 C. CFP is an Amine free polypropylene plastic that will meet or exceed your ESD and mechanical requirements. Consult Ground Zero to determine correct stock tote / shipper or a custom design to meet your special needs.



### ZeroStat In-plant Handlers

- ☀ Use In-plant or Inter-plant
- ☀ Static Shielding
- ☀ Reusable / Recyclable
- ☀ Physical Protection
- ☀ No Bags / No Bagging Labor
- ☀ Low Cost

ZeroStat InPlant Handlers (IPH) offer a tremendous cost savings opportunity for movement of circuit boards. Corstat™ enables you to eliminate bags and bagging labor. The ZeroStat IPH allows you to continuously reuse your physical and static protection, while eliminating the bulk of the labor. ZeroStat IPH has all bent over sides and partitions for durability that can last for years. The parts are die cut for maximum cleanliness.



### GZ Conductive / Dissipative Hinged Boxes

The distinction between a static dissipative plastic and a conductive plastic is essentially one of resistivity ranges. A static dissipative plastic might have a typical surface resistivity of  $<10^{12}$  and  $10^5$  ohms per square. A conductive plastic will have a typical surface resistivity of  $<10^5$  ohms per square and a volume resistivity of  $<10^4$ . GZ conductive has a typical surface resistivity of  $<10^5$  ohms per square; the volume resistivity is  $<100$  ohms-cm. The static decay is  $<.10$  seconds. GZ conductive is only available in black. GZ dissipative has a surface resistivity of  $<10^{12}$  ohms per square. the surface resistance is  $<10^{11}$  ohms. The static decay rate is  $<2$  seconds. GZ dissipative is available in clear or off-white opaque (custom only).



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