

# Static Shielding Bag\_ANT013SSB



## Features:

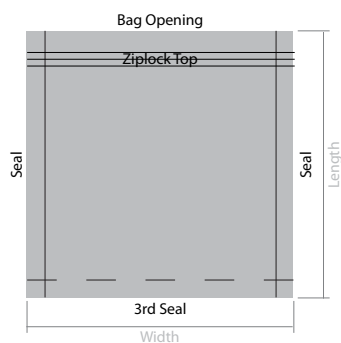
- Metal "Faraday cage" layer shields products from electric energy inside and prevents static build-up
- Four layer protection guards against charges inside and out
- Semi transparent for easy content identification
- Surface resistance of  $10^8$ - $10^{11}\Omega$
- Conforms to MIL-PRF-81705D Type III, EIA 625, EIA 541, ANSI/ESD S-20.20
- Suitable for packing electronic products which are sensitive to static, eg PCB's, IC integrated circuit , CD driver, HD etc

## Additional Notes:

We recommend that all of our static shielding bags be used within 2 years from the date of manufacture. Store this product in its original packaging in a climate-controlled environment where temperature ranges from 21°C -23°C and relative humidity is 45 - 50%.



|                                 |
|---------------------------------|
| Outer Surface Dissipative Layer |
| Aluminized Polyester            |
| Polyethylene                    |
| Inner Surface Dissipative Layer |



## Construction:

Our static shielding bags are constructed in four layers, consisting of a static dissipative polyester outer layer and a static dissipative polyethylene inner layer with a centre metallised shield layer.

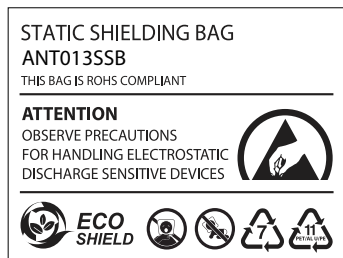
Our bags are manufactured from industry approved polyester and polyethylene laminates. The polyester dielectric works with the metal layer to provide a Faraday effect, the metal layer preventing penetration from damaging electrostatic fields. The specially processed polyethylene keeps tribocharging to a minimum.

## Configuration(s):

Our bags are available in custom sizes or in several industry standard sizes. Bags are offered in a 2-seal configuration and bottom fold, with our standard flexographically printed artwork. Please note any bags that are longer than 24" will have a 3rd seal along the bottom edge.

## Standard Bag Artwork:

Our static shielding bags are produced with the following sample artwork as standard.



| Product Code: | Description:                 | Size (in): | Size (mm): | Additional Notes:           |
|---------------|------------------------------|------------|------------|-----------------------------|
| 1687789       | Static Shielding Ziplock Bag | 12 x 16    | 305 x 406  | Pack of 100 (Ref: 013-0010) |

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## Test Conditions:

The following results were taken under the following environmental test conditions:  
Temperature: 23°C / Humidity: 43%



## Technical Parameters:

| Item:                            | Test Standard:                  | Result:   |
|----------------------------------|---------------------------------|---|
| Film Composition                 | N/A                             | PET-AL/PP   |
| Film Thickness                   | Micron Meter                    | 2.9mils-3.1mils   |
| Metal Layer Resistance           | ASTM D257                       | <100 Ω/sq   |
| Metal Layer Optical Transmission | ASTM D1003                      | 40% - 0.4 Optical Density   |
| Surface Resistivity              | ASTM D257                       | <10 <sup>10</sup> Ω/sq  |
| Time for static removal          | FTMS 101B Method 4046 - 5000-0V | <0.01 sec   |
| Friction Static                  | E1A541 Appendix C Avg.          | Triboelectric Nanocolombs<br>Quartz<13n/in Teflon.<13n/in   |
| Capacitance Release              | E1A541 Voltage Difference       | <10V  |
| Anti-erosion                     | FTMS 101C Method 3005           | No visible spots  |
| Tensile Strength                 | ASTM D882                       | >18 lbs./in   |
| Tear Initiation                  | ASTM D1004                      | >2.5 lbs./in  |
| Puncture Resistance              | ASTM D3420                      | >100 PSI  |
| Tear Resistance                  | ASTM D882                       | >8 lbs./in  |
| MVTR                             | ASTM E 96                       | <0.2 gm/100in-2/4hrs  |
| Oxygen Barrier                   | ASTM D 3985                     | <0.5 CC/100in-2/4hrs  |
| Heat Seal Temperature            | -                               | 250 - 375 °F  |
| Heat Seal Pressure               | -                               | 30-70 PSI   |
| Breaking Tensile Force           | GB/96-04-10                     | N/15mm  |
| Breaking Elongation Rate         | GB/96-04-10                     | %   |
| Laminating Strength              | GB/96-04-10                     | N/15mm  |
| Seal Strength                    | GB/96-04-10                     | N/15mm  |
| Appearance                       | GB/96-04-10                     | No delamination, burst seal, wrinkle, warp, break, foreign particle adherence, air bubble beyond sealing $\phi \leq 3\text{mm}$ |

**Test Conclusion:** (Date of Issue: 2009-11-10): The shielding bag is tested accordance with the relevant test standard & requirements.

| Test Item:                             | Test Method:                | Measured Equipment(s): | MDL:   |
|--|-----------------------------|------------------------|--------|
| Lead (Pb)                              | IEC 62321:2008 Ed.1 Sec.8   | ICP-OES                | 2mg/kg |
| Cadmium (Cd)                           | IEC 62321:2008 Ed.1 Sec.8   | ICP-OES                | 2mg/kg |
| Mercury (Hg)                           | IEC 62321:2008 Ed.1 Sec.7   | ICP-OES                | 2mg/kg |
| Hexavalent Chromium (Cr(VI))           | IEC 62321:2008 Ed.1 Annex C | UV-Vis                 | 2mg/kg |
| Polybrominated Biphenyls (PBBs)        | IEC 62321:2008 Ed.1 Annex A | GC-MS                  | 5mg/kg |
| Polybrominated Diphenyl Ethers (PBDEs) | IEC 62321:2008 Ed.1 Annex A | GC-MS                  | 5mg/kg |

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