



**Features:**

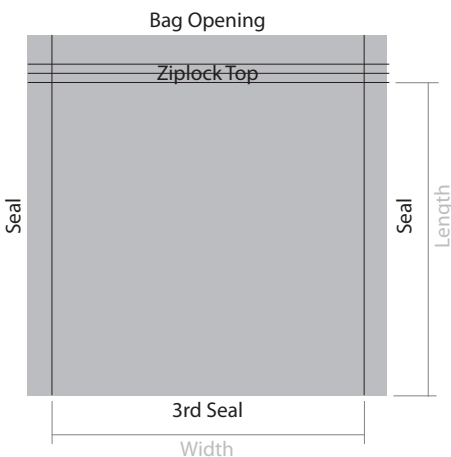
- Metal “Faraday cage” layer shields products from electric energy inside and prevents static build-up
- Four layer protection guards against charges inside and out
- Semi transparent for easy content identification
- Surface resistance of  $10^8$ - $10^{11}\Omega$
- Conforms to EIA 625, EIA 541, ANSI/ESD S-20.20
- Custom sizes and print available on request
- Suitable for packing electronic products which are sensitive to static, eg PCB’s, Electronic Components etc



|                                 |
|---------------------------------|
| 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.



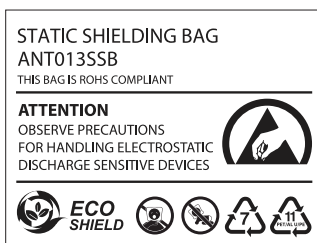
Our bags are manufactured from industry approved polyester and polyethelene laminates. The polyester dielectric works with the metal layer to provide a Faraday effect, the metal layer preventing penetration from damaging electrostatic fields. The specially processed polyethelene keeps tribocharging to 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. Our bags can also be personalised with your company logo on any bespoke orders.

**Standard Bag Artwork:**

Our static shielding bags are produced with the following sample artwork as standard. For further information on bespoke/printed orders, please contact one of our sales team. Please note there is a MOQ of 20,000 bags on all printed bags.



| Product Code: | Description          | Size (Inches): | Size (mm): | Additional Notes:           |
|---------------|----------------------|----------------|------------|-----------------------------|
| 1687799       | Static Shielding Bag | 4 x 4          | 102 x 102  | Pack of 100 (Ref: 013-0002) |

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# Static Shielding Bag\_ANT013SSB



## 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 Thickness                        | Micron Meter                       | 3mils 75 micron   |
| Metal Layer Optical Transmission      | ASTM D1003                         | 40% +/- 5% optical density  |
| Surface Resistivity                   | IEC 61340-2-3                      | <10 <sup>10</sup> Ω/sq  |
| Time for static removal               | FTMS 101B Method 4046 - 5000-0V    | <.0.03 Sec  |
| Static Shielding - Energy Penetration | ESD-STM-11.31 @12% R.H.            | <30 nJ  |
| Static Shielding - Capacitive Probe   | EIA 541                            | <25V  |
| Friction Static                       | E1A541 Appendix C Avg.             | TriboelectricNanocolombs<br>Quartz +0.10 Tefion -0.09   |
| Capacitance Release                   | E1A541 Voltage Difference          | <20V  |
| Anti-erosion                          | FTMS 101C Method 3005              | No visible spots  |
| Tensile Strength                      | ASTM D882-91, Method A             | MD 6530 psi TD 5800 psi   |
| Tear Initiation                       | ASTM D1004 -94-Notched             | MD 2.5 lbs./in TD 2.0 lbs   |
| Puncture Resistance                   | ASTM D3420                         | >100 PSI  |
| Tear Resistance                       | ASTM D882                          | >8 lbs./in  |
| Burst Strength                        | FTMS 101 C Method 2065.1           | 50 psi Nominal  |
| Heat Seal Temperature                 | -                                  | 250 - 375 °F  |
| Heat Seal Pressure                    | -                                  | 30-70 PSI   |
| Heat Seal Strength                    | (D1876-93) Vertrod bar sealer/heat | >12 lbs/in width (room temperature)   |
| Breaking Elongation Rate              | ASTM D882-91 Method A              | MD 80% TD 85%   |
| 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 and 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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