

**RoHS
Compliant**

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 $10^8 \sim 10^{11} \Omega$
- Conforms to EIA 625, EIA 541, ANSI/ESD S-20.20
- Suitable for packing electronic products which are sensitive to static, eg. PCB's, Electronic Components etc



Construction

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.

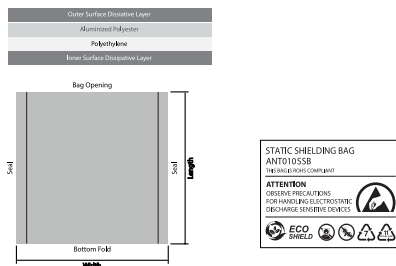
Our bags are manufactured from industry approved polyester and polyethelene laminates. The polyester dielectric works with the metal layer to provide a Faraday effect, the metal layer preventing penetration from damaging electrostatic fields. The specially processed polyethelene keeps tribocharging to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



Test Conditions

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

| 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^{10} 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 |

Static Shielding Bag

| Item | Test Standard | Result |
|--------------------------|------------------------------------|--|
| Friction Static | E1A541 Appendix C Avg. | Triboelectric Nanocolombs Quartz +0.10 PTFE -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) Vertron 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 $\varnothing \leq 3\text{mm}$ |

Test Conclusion

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 |

Part Number Table

| Description | Part Number |
|--|-------------|
| Static Shielding Bag, 355mm×457mm, PK100 | MC0100048 |

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