

PRODUCT

Static shielding bag - Open top

ANT010SSB

These open top, easy access static shielding bags are designed to protect sensitive electronic devices against ESD during transit and whilst kept in storage.



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 10^6 - 10^{10} Ohms
- 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 PCBs, electronic components etc

1) 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.

2) BAG ARTWORK

Our static shielding bags are produced with the shown artwork as standard. For further information on bespoke/printed orders, please contact one of our sales team.

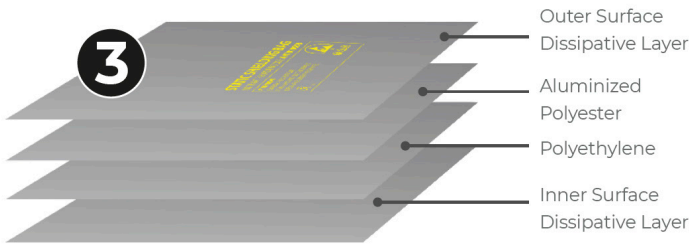
To request a quotation or for more information, please call **+1 512-580-4220** email sales@antistat.com or visit www.antistat.com

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3) 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.



TEST CONDITIONS

The following results were taken under the following environmental test conditions: Temperature: 23°C / Humidity: 12% RH.

| ITEM | TEST METHOD | TYPICAL VALUE |
|---------------------------------------|------------------------------------|---|
| Film thickness | Micron Meter | 3Mil 75 micron |
| Metal layer optical transmission | ASTM D1003 (TOBIAS) | 40% +/- 5% optical density |
| Surface resistivity | STM 11.11 | 10 ⁶ -10 ¹⁰ |
| Time for static removal | FTMS 101B Method 4046 - 5000-0V | <.03 Sec |
| Static shielding - Energy penetration | ESD-STM-11.31 @12% R.H. | <20 nJ |
| Static shielding - Capacitive probe | EIA 541 Appendix E | <25V |
| Friction static | E1A541 Appendix C Avg. | Triboelectric nanocoulombs Quartz +0.01 Tefion -0.09 |
| 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 | >10 psi |
| Tear resistance | ASTM D882 | >8 psi |
| 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 | - | No delamination, burst seal, wrinkle, warp, break, foreign particle adherence, air bubble beyond sealing ≤3mm |

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TEST CONDITIONS

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 |

| PRODUCT CODE | SIZE (inch) | SIZE (mm) | QUANTITY (per pack) |
|--------------|-------------|-------------|---------------------|
| 010-0085 | 2 x 6 | 50.8 x 152 | 100 |
| 010-0001 | 3 x 5 | 76 x 127 | 100 |
| 010-0005 | 4 x 6 | 102 x 152 | 100 |
| 010-0008 | 4 x 12 | 102 x 305 | 100 |
| 010-0009 | 4 x 24 | 102 x 610 | 100 |
| 010-0013 | 4 x 27 | 102 x 685.8 | 100 |
| 010-0187 | 5 x 7 | 127 x 177.8 | 100 |
| 010-0011 | 5 x 8 | 127 x 203 | 100 |
| 010-0012 | 5 x 26 | 127 x 660.4 | 100 |
| 010-0014 | 6 x 8 | 152 x 203 | 100 |
| 010-0015 | 6 x 10 | 152 x 254 | 100 |
| 010-0016 | 6 x 12 | 152 x 305 | 100 |
| 010-0075 | 6 x 14 | 152 x 356 | 100 |
| 010-0018 | 6 x 30 | 152 x 762 | 100 |
| 010-0021 | 7 x 16 | 177.8 x 406 | 100 |
| 010-0024 | 8 x 10 | 203 x 254 | 100 |

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| PRODUCT CODE | SIZE (Inches) | SIZE(mm) | QUANTITY (per pack) |
|--------------|---------------|-----------|---------------------|
| 010-0025 | 8 x 12 | 203 x 305 | 100 |
| 010-0022 | 8 x 20 | 203 x 508 | 100 |
| 010-0027 | 8 x 30 | 203 x 762 | 100 |
| 010-0029 | 10 x 12 | 254 x 305 | 100 |
| 010-0030 | 10 x 14 | 254 x 355 | 100 |
| 010-0031 | 10 x 16 | 254 x 406 | 100 |
| 010-0040 | 12 x 14 | 305 x 355 | 100 |
| 010-0041 | 12 x 16 | 305 x 406 | 100 |
| 010-0042 | 12 x 18 | 305 x 457 | 100 |
| 010-0048 | 14 x 18 | 355 x 457 | 100 |
| 010-0097 | 14 x 24 | 355 x 610 | 100 |
| 010-0055 | 16 x 18 | 406 x 457 | 100 |
| 010-0056 | 16 x 20 | 406 x 508 | 100 |
| 010-0058 | 18 x 18 | 457 x 457 | 100 |
| 010-0059 | 18 x 20 | 457 x 508 | 100 |
| 010-0060 | 18 x 24 | 457 x 610 | 100 |
| 010-0096 | 20 x 24 | 508 x 610 | 100 |
| 010-0067 | 20 x 30 | 508 x 762 | 100 |
| 010-0006 | 4 x 8 | 102 x 203 | 100 |
| 010-0007 | 4 x 15 | 102 x 381 | 100 |
| 010-0075 | 6 x 14 | 152 x 356 | 100 |

NOTES

- Other sizes available upon request, minimum order quantities apply
- All of Antistat's products are RoHS 3 and Reach compliant
- Supports EN 61340-5-1 and can be used as part of an ANSI/ESD S20.20

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