

PRODUCT

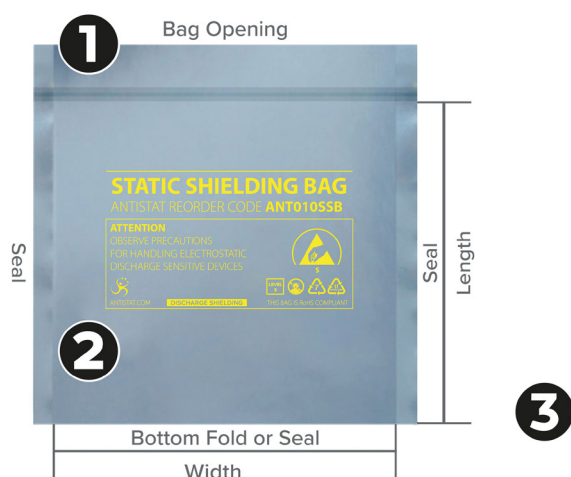
Static Shielding Bag - Grip Seal

TECHNICAL DATASHEET



DESCRIPTION

These grip seal, 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
- Specially processed polyethylene layer (minimum 30% recycled material)
- 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, the standard measurements for grip seal bags are taken from the grip seal to the bottom fold or seal. 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 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 custom printed bags.

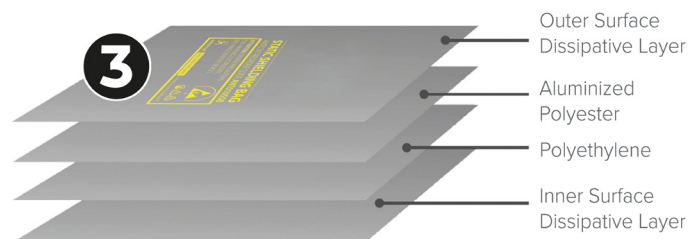
To request a quotation or for more information, please call **+44 (0)1473 836200** email info@antistat.co.uk or visit www.antistat.co.uk

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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 (minimum 30% recycled material) keeps tribocharging to a minimum.



TEST CONDITIONS

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 resistance | STM 11.11 | 10 ⁶ -10 ¹⁰ Ohms |
| Time for static removal | FTMS 101B Method 4046 - 5000-0V | <0.03 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 | DESCRIPTION | SIZE (inch) | SIZE (mm) | PACK QUANTITY |
|--------------|----------------------------------|-------------|-----------|---------------|
| 013-0001 | Static Shielding Bag - Grip Seal | 3 x 5 | 76 x 127 | 100 |
| 013-0018 | Static Shielding Bag - Grip Seal | 3 x 7 | 76 x 178 | 100 |
| 013-0044 | Static Shielding Bag - Grip Seal | 3.4 x 5.4 | 86 x 137 | 100 |
| 013-0002 | Static Shielding Bag - Grip Seal | 4 x 4 | 102 x 102 | 100 |
| 013-0003 | Static Shielding Bag - Grip Seal | 4 x 6 | 102 x 152 | 100 |
| 013-0301 | Static Shielding Bag - Grip Seal | 4 x 8 | 102 x 203 | 100 |
| 013-0022 | Static Shielding Bag - Grip Seal | 4 x 14 | 102 x 355 | 100 |
| 013-0052 | Static Shielding Bag - Grip Seal | 4 x 24 | 102 x 609 | 100 |
| 013-0004 | Static Shielding Bag - Grip Seal | 5 x 8 | 127 x 203 | 100 |
| 013-0012 | Static Shielding Bag - Grip Seal | 5 x 10 | 127 x 254 | 100 |
| 013-0020 | Static Shielding Bag - Grip Seal | 6 x 8 | 152 x 203 | 100 |
| 013-0005 | Static Shielding Bag - Grip Seal | 6 x 10 | 152 x 254 | 100 |
| 013-0303 | Static Shielding Bag - Grip Seal | 6 x 18 | 152 x 455 | 100 |
| 013-0306 | Static Shielding Bag - Grip Seal | 7 x 11 | 178 x 279 | 100 |
| 013-0026 | Static Shielding Bag - Grip Seal | 7 x 15 | 178 x 381 | 100 |
| 013-0006 | Static Shielding Bag - Grip Seal | 8 x 10 | 203 x 254 | 100 |
| 013-0007 | Static Shielding Bag - Grip Seal | 8 x 12 | 203 x 305 | 100 |
| 013-0019 | Static Shielding Bag - Grip Seal | 9 x 12 | 228 x 305 | 100 |
| 013-0047 | Static Shielding Bag - Grip Seal | 9.8 x 15.75 | 250 x 400 | 100 |
| 013-0008 | Static Shielding Bag - Grip Seal | 10 x 12 | 254 x 305 | 100 |

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| PRODUCT CODE | DESCRIPTION | SIZE (inch) | SIZE (mm) | PACK QUANTITY |
|--------------|----------------------------------|-------------|-----------|---------------|
| 013-0009 | Static Shielding Bag - Grip Seal | 10 x 14 | 254 x 355 | 100 |
| 013-0304 | Static Shielding Bag - Grip Seal | 12 x 12 | 305 x 305 | 100 |
| 013-0305 | Static Shielding Bag - Grip Seal | 12 x 14 | 305 x 355 | 100 |
| 013-0010 | Static Shielding Bag - Grip Seal | 12 x 16 | 305 x 406 | 100 |
| 013-0011 | Static Shielding Bag - Grip Seal | 12 x 18 | 305 x 455 | 100 |
| 013-0015 | Static Shielding Bag - Grip Seal | 16 x 18 | 400 x 455 | 100 |
| 013-0042 | Static Shielding Bag - Grip Seal | 18 x 24 | 457 x 610 | 100 |

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