

PRODUCT

Static Shielding Bag - Open Top

TECHNICAL DATASHEET



DESCRIPTION

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
- 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 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.

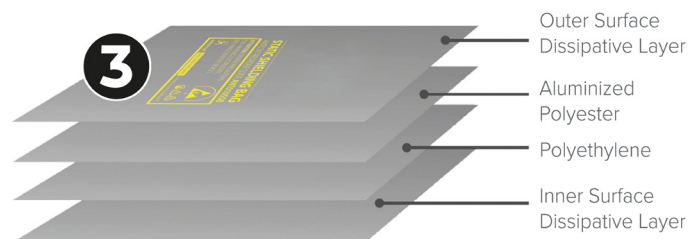
To request a quotation or for more information, please call **+44 (0)1473 836200**
email info@antistat.co.uk or visit www.antistat.co.uk

IMPORTANT: This data sheet and its contents (the “Information”) belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © 2025 Antistat.

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 below 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 | <.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 Teflon -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) Vertrad 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 |

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

IMPORTANT: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © 2025 Antistat.

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 | 51 x 152 | 100 |
| 010-0001 | 3 x 5 | 76 x 127 | 100 |
| 010-0004 | 4 x 4 | 102 x 102 | 100 |
| 010-0005 | 4 x 6 | 102 x 152 | 100 |
| 010-0006 | 4 x 8 | 102 x 203 | 100 |
| 010-0008 | 4 x 12 | 102 x 305 | 100 |
| 010-0007 | 4 x 15 | 102 x 381 | 100 |
| 010-0066 | 4 x 21 | 102 x 533 | 100 |
| 010-0009 | 4 x 24 | 102 x 610 | 100 |
| 010-0013 | 4 x 27 | 102 x 686 | 100 |
| 010-0087 | 4 x 30 | 102 x 762 | 100 |
| 010-0104 | 5 x 6 | 127 x 152 | 100 |
| 010-0187 | 5 x 7 | 127 x 178 | 100 |
| 010-0011 | 5 x 8 | 127 x 203 | 100 |
| 010-0112 | 5 x 10 | 127 x 254 | 100 |
| 010-0012 | 5 x 26 | 127 x 660 | 100 |
| 010-0189 | 5.1 x 8 | 129 x 203 | 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 |

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

IMPORTANT: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © 2025 Antistat.

| PRODUCT CODE | SIZE (inch) | SIZE (mm) | QUANTITY (per pack) |
|--------------|-------------|------------|---------------------|
| 010-0018 | 6 x 30 | 152 x 762 | 100 |
| 010-0179 | 6.8 x 11.6 | 173 x 295 | 100 |
| 010-0174 | 7.1 x 9.8 | 180 x 250 | 100 |
| 010-0021 | 7 x 16 | 178 x 406 | 100 |
| 010-0023 | 8 x 8 | 203 x 203 | 100 |
| 010-0024 | 8 x 10 | 203 x 254 | 100 |
| 010-0025 | 8 x 12 | 203 x 305 | 100 |
| 010-0119 | 8 x 14 | 203 x 355 | 100 |
| 010-0035 | 8 x 16 | 203 x 406 | 100 |
| 010-0036 | 8 x 18 | 203 x 457 | 100 |
| 010-0022 | 8 x 20 | 203 x 508 | 100 |
| 010-0027 | 8 x 30 | 203 x 762 | 100 |
| 010-0192 | 8 x 40 | 203 x 1016 | 100 |
| 010-0221 | 9 x 21.6 | 229 x 549 | 100 |
| 010-0185 | 9.8 x 7.8 | 249 x 198 | 100 |
| 010-0183 | 9.8 x 19.6 | 249 x 498 | 100 |
| 010-0028 | 10 x 10 | 254 x 254 | 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 |
| 010-0032 | 10 x 18 | 254 x 457 | 100 |
| 010-0034 | 10 x 24 | 254 x 610 | 100 |
| 010-0105 | 10 x 26 | 254 x 660 | 100 |
| 010-0033 | 10 x 30 | 254 x 762 | 100 |
| 010-0115 | 11 x 15 | 279 x 381 | 100 |
| 010-0038 | 12 x 12 | 305 x 305 | 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 |
| 010-0151 | 13 x 20.6 | 330 x 523 | 100 |
| 010-0049 | 14 x 12 | 355 x 305 | 100 |
| 010-0205 | 14 x 14 | 355 x 355 | 100 |

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

IMPORTANT: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © 2025 Antistat.

| PRODUCT CODE | SIZE (inch) | SIZE (mm) | QUANTITY (per pack) |
|--------------|-------------|-----------|---------------------|
| 010-0047 | 14 x 16 | 355 x 406 | 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 |
| 010-0200 | 17.5 x 19.6 | 445 x 500 | 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 |

Notes:

- Other sizes available upon request, minimum order quantities apply
- All of Antistat's products are RoHS 3 and Reach compliant
- Supports the following standards: IEC 61340-5-1, IEC 61340-5-3, ANSI/ESD S20.20, ANSI/ESD S541, ANSI/ESD S11.4 Level 3

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

IMPORTANT: This data sheet and its contents (the "Information") belong to Antistat or are licensed to it. No licence is granted for the use of it other than for information purposes in connection with the products to which it relates. No licence of any intellectual property rights is granted. The Information is subject to change without notice and replaces all data sheets previously supplied. The Information supplied is believed to be accurate but Antistat assumes no responsibility for its accuracy or completeness, any error in or omission from it or for any use made of it. Users of this data sheet should check for themselves the Information and the suitability of the products for their purpose and not make any assumptions based on information included or omitted. Liability for loss or damage resulting from any reliance on the Information or use of it (including liability resulting from negligence or where Antistat was aware of the possibility of such loss or damage arising) is excluded. © 2025 Antistat.