

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.

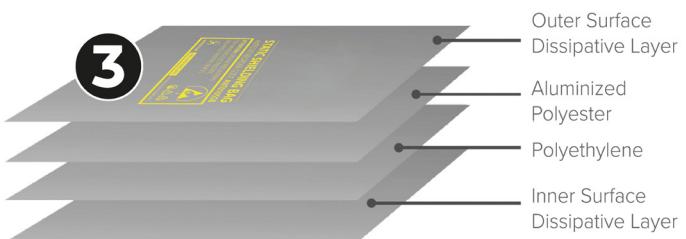
To request a quotation or for more information, please call **+44 (0)1473 836200**
 email info@antistat.co.uk or visit www.antistat.co.uk

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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 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	<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	EIA541 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	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

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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

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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

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