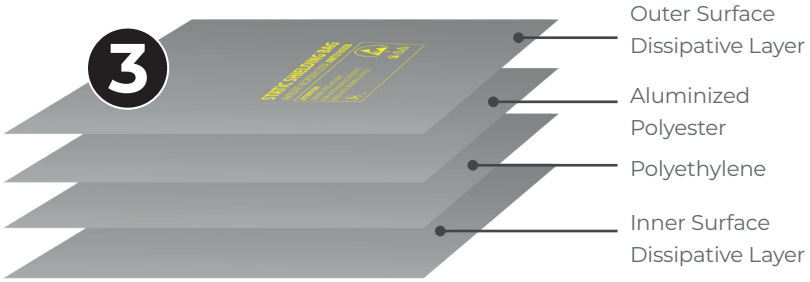
Static Shielding Bag

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^{8}-$10^{11}\Omega$
- Conforms to EIA 625, EIA 541, ANSI/ESD S-20.20 & EN61340-51-ESD
- 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. Our bags can also be personalised with your company logo on any bespoke orders.

2 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.

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 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.

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Test Conditions

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

Technical Parameters:

Item	Test Standard	Result
Film Thickness	Micron Meter	3mils 75 micron
Metal Layer Optical Transmission	ASTM D1003 (TOBIAS)	40% +/- 5% optical density
Surface Resistivity	STM 11.11	$<10^{10}$ Ohms/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.	<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	GB/96-04-10	No delamination, burst seal, wrinkle, warp, break, foreign particle adherence, air bubble beyond sealing ≤3mm

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Test Conditions: (Date of Issue: 2009-11-10)
The shielding bag is tested accordance with the relevant test standard and requirements.

RoHS 2 and REACH Compliance Statement:
All of Antistat's products are RoHS and Reach compliant.

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

ESD Caution Labels

ANT003PAB

Product Code	Size (Inches)	Size (mm)	Additional Notes
010-0085	2 x 6	50.8 x 152	Pack of 100
010-0001	3 x 5	76 x 127	Pack of 100
010-0005	4 x 6	102 x 152	Pack of 100
010-0008	4 x 12	102 x 305	Pack of 100
010-0009	4 x 24	102 x 610	Pack of 100
010-0013	4 x 27	102 x 685.8	Pack of 100
010-0187	5 x 7	127 x 177.8	Pack of 100
010-0011	5 x 8	127 x 203	Pack of 100
010-0012	5 x 26	127 x 660.4	Pack of 100
010-0014	6 x 8	152 x 203	Pack of 100
010-0015	6 x 10	152 x 254	Pack of 100
010-0016	6 x 12	152 x 305	Pack of 100
010-0075	6 x 14	152 x 356	Pack of 100
010-0018	6 x 30	152 x 762	Pack of 100
010-0021	7 x 16	177.8 x 406	Pack of 100
010-0024	8 x 10	203 x 254	Pack of 100
010-0025	8 x 12	203 x 305	Pack of 100
010-0022	8 x 20	203 x 508	Pack of 100
010-0027	8 x 30	203 x 762	Pack of 100
010-0029	10 x 12	254 x 305	Pack of 100
010-0030	10 x 14	254 x 355	Pack of 100
010-0031	10 x 16	254 x 406	Pack of 100
010-0040	12 x 14	305 x 355	Pack of 100
010-0041	12 x 16	305 x 406	Pack of 100
010-0042	12 x 18	305 x 457	Pack of 100
010-0048	14 x 18	355 x 457	Pack of 100
010-0097	14 x 24	355 x 610	Pack of 100
010-0055	16 x 18	406 x 457	Pack of 100
010-0056	16 x 20	406 x 508	Pack of 100
010-0058	18 x 18	457 x 457	Pack of 100
010-0059	18 x 20	457 x 508	Pack of 100
010-0060	18 x 24	457 x 610	Pack of 100
010-0096	20 x 24	508 x 610	Pack of 100
010-0067	20 x 30	508 x 762	Pack of 100

ESD Caution Labels

ANT003PAB

Product Code	Size (Inches)	Size (mm)	Additional Notes
010-0006	4 x 8	102 x 203	Pack of 100
010-0007	4 x 15	102 x 381	Pack of 100
010-0075	6 x 14	152 x 356	Pack of 100

Note:
Other sizes available upon request.