



## Static Shielding Ziplock Bag\_ANT013SSB

### 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
- Custom sizes and print available on request
- Suitable for packing electronic products which are sensitive to static, eg PCB's, Integrated circuits , CD drives etc

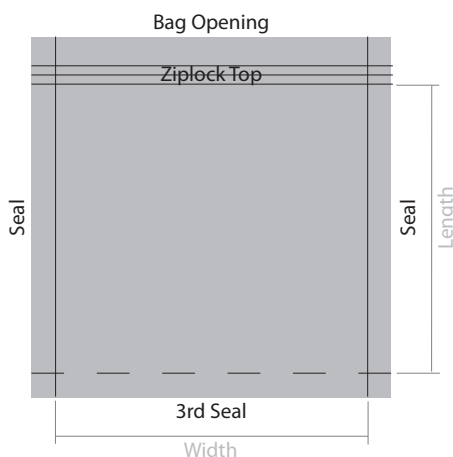


Outer Surface Dissipative Layer
Aluminized Polyester
Polyethylene
Inner Surface Dissipative Layer

### 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.



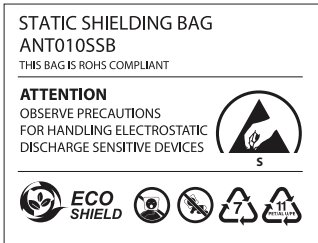
### Configuration(s):

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.

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### 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.

### 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	3mil 75 micron
Metal Layer Optical Transmission	ASTM D1003 (TOBIAS)	40% +/- 5% optical density
Surface Resistivity	STM 11.11	<10 <sup>10</sup> Ω/sq
Time for static removal	FTMS 101B Method 4046 - 5000-0V	<.003 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.	TriboelectricNanocolombs 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) 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 $\phi \leq 3\text{mm}$

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**Test Conclusion:** (Date of Issue: 2009-11-10)

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 (Imperial):	Size (Metric):	Additional Notes:
013-0001	3 x 5	76mm x 127mm	Pack of 100
013-0003	4 x 6	102mm x 152mm	Pack of 100
013-0004	5 x 8	127mm x 203mm	Pack of 100
013-0020	6 x 8	152mm x 203mm	Pack of 100
013-0005	6 x 10	152mm x 254mm	Pack of 100
013-0006	8 x 10	203mm x 254mm	Pack of 100
013-0007	8 x 12	203mm x 305mm	Pack of 100
013-0008	10 x 12	254mm x 305mm	Pack of 100
013-0009	10 x 14	254mm x 355mm	Pack of 100
013-0010	12 x 16	305mm x 406mm	Pack of 100
013-0025	14 x 18	355mm x 455mm	Pack of 100
013-0042	18 x 24	455mm x 600mm	Pack of 100

Note: Other sizes available upon request.

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