

**PRODUCT**

# Static shielding bag - Grip seal

**ANT013SSB**



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
- Conforms to EIA 625, EIA 541, ANSI/ESD S-20.20 and EN61340-51-ESD
- Custom sizes and print at available on request
- Suitable for packaging electronic products which are sensitive to static, eg PCDs, 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) 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.

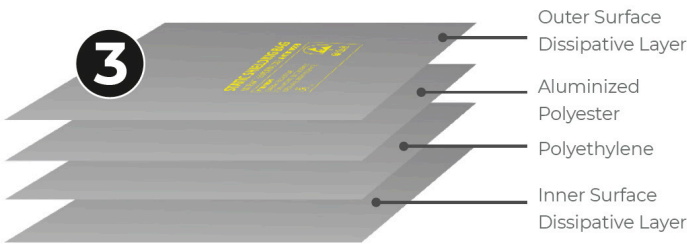
To request a quotation or for more information, please call **+1 512-580-4220** email [sales@antistat.com](mailto:sales@antistat.com) or visit [www.antistat.com](http://www.antistat.com)

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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 metalised 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 polyethylene keeps tribocharging to a minimum.



**TEST CONDITIONS**

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

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>6</sup> -10 <sup>10</sup>
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.	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)	QUANTITY (per pack)
013-0001	Static Shielding Bag - Grip Seal	3 x 5	76 x 127	100
013-0003	Static Shielding Bag - Grip Seal	4 x 6	102 x 152	100
013-0004	Static Shielding Bag - Grip Seal	5 x 8	127 x 203	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
013-0006	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
013-0008	Static Shielding Bag - Grip Seal	10 x 12	254 x 305	100
013-0009	Static Shielding Bag - Grip Seal	10 x 14	254 x 355	100
013-0010	Static Shielding Bag - Grip Seal	12 x 16	305 x 406	100

**NOTES**

- Other sizes available upon request, minimum order quantities apply
- All of Antistat's products are RoHS 3 and REACH compliant
- Supports EN 61340-5-1 and can be used as part of an ANSI/ESD S20.20 program

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