

**RoHS
Compliant**



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 $10^8 \sim 10^{11} \Omega$
- Conforms to EIA 625, EIA 541, ANSI/ESD S-20.20
- Suitable for packing electronic products which are sensitive to static.

Construction

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.

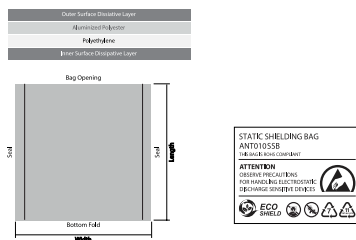
Our bags are manufactured from industry approved polyester and polyethelene laminates. The polyester dielectric works with the metal layer to provide a Faraday effect, the metal layer preventing penetration from damaging electrostatic fields. The specially processed polyethelene keeps tribocharging to 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. Bags can also be personalised with company logo on any bespoke orders.

Standard Bag Artwork

Our static shielding bags are produced with the following sample artwork as standard.



Test Conditions

The following results were taken under the following environmental test conditions: Temperature: 23°C / Humidity: 43%

Item	Test Standard	Result
Film Composition	N/A	PET-AL/PP
Film Thickness	Micron Meter	2.9mils - 3.1mils
Metal Layer Resistance	ASTM D257	<100 Ω /sq
Metal Layer Optical Transmission	ASTM D1003	40% 0.4 optical density
Surface Resistivity	ASTM D257	< 10^{10} Ω /sq
Time for static removal	FTMS 101B Method 4046 - 5000-0V	<0.01 Sec
Friction Static	E1A541 Appendix C Avg.	Triboelectric Nanocolombs Quartz <13n/in PTFE <13n/in
Capacitance Release	E1A541 Voltage Difference	<25V
Anti-erosion	FTMS 101C Method 3005	Triboelectric Nanocolombs Quartz +0.10 PTFE -0.09
Capacitance Release	E1A541 Voltage Difference	<10V

Static Shielding Bag



Item	Test Standard	Result
Anti-erosion	FTMS 101C Method 3005	No visible spots
Tensile Strength	ASTM D882	>18 lbs./in
Tear Initiation	ASTM D1004	>2.5 lbs./in
Puncture Resistance	ASTM D3420	>100 PSI
Tear Resistance	ASTM D882	>8 lbs./in
MVTR	ASTM E 96	<0.2 gm/100in-2/4hrs
Oxygen Barrier	ASTM D 3985	<0.5 CC/100in-2/4hrs
Heat Seal Temperature	-	250 - 375 oF
Heat Seal Pressure	-	30-70 PSI
Breaking Tensile Force	GB/96-04-10	N/15mm
Breaking Elongation Rate	GB/96-04-10	%
Laminating Strength	GB/96-04-10	N/15mm
Seal Strength	GB/96-04-10	N/15mm
Appearance	GB/96-04-10	No delamination, burst seal, wrinkle, warp, break, foreign particle adherence, air bubble beyond sealing Ø≤3mm

Test Conclusion

The shielding bag is tested accordance with the relevant test standard & 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

Additional Notes

We recommend that all of our static shielding bags be used within 2 years from the date of manufacture. Ideally store this product in its original packaging in a climate-controlled environment where temperature ranges from 21°C to 23°C and relative humidity is 45% - 50%.

Part Number Table

Description	Part Number
Static Shielding Bag, 101.6mm×203mm, PK100	MC0100006

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