

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
- Custom sizes and print available on request
- Suitable for packing electronic products which are sensitive to static, eg PCB's, Electronic Components etc

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.

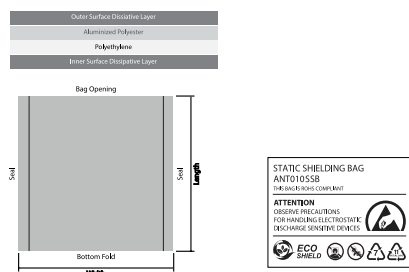
Our bags are manufactured from industry approved polyester and polyethelene laminates. The polyester dielectric works with the metal layer to provide a Faraday effect, the metal layer preventing penetration from damaging electrostatic fields. The specially processed polyethelene keeps tribocharging to 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. 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.



Specifications

Material : APET/CPE
Total Thickness : 0.075mm

Item		Typical Value	Test Method
Thickness		±10%	MIL-STD-3010 1003
Tensile breaking force	TD	≥40N/25mm	ASTM D882
	MD	≥40N/25mm	ASTM D882
Elongation at break	TD	≥20%	ASTM D882
	MD	≥20%	ASTM D882
Seal Strength		≥30N/15mm	MIL-PRF-81705E

Newark.com/multicomp-pro
Farnell.com/multicomp-pro
sg.element14.com/b/multicomp-pro

Item	Typical Value	Test Method
Puncture Resistance	≥35N	FTMS 101C Method 2065.1
Surface Resistance (Inner)	10 ⁸ -10 ¹¹ Ω	ANSI/ESD STM11.11
Surface Resistance (Outer)	10 ⁸ -10 ¹¹ Ω	ANSI/ESD STM11.11
Static Shielding (out sourced testing)	<20nJ	ANSI/ESD STM11.31
Static Decay (out sourced testing)	<2s	MIL-STD-3010C
Friction Voltage	<100V	ESD ADV11.2
Light Transmission	45% - 55%	ASTM D1003

Test Conditions

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

Item:	Test Standard:	Result:
Film Thickness	Micron Meter	3mils 75 micron
Metal Layer Optical Transmission	ASTM D1003	40% ±5% optical density
Surface Resistivity	IEC 61340-2-3	<10 ¹⁰ Ω/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.	<30 nJ
Static Shielding - Capacitive Probe	EIA 541	<25V
Friction Static	E1A541 Appendix C Avg.	TriboelectricNanocolombs Quartz +0.10 PTFE -0.09
Capacitance Release	E1A541 Voltage Difference	<20V
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	>100 PSI
Tear Resistance	ASTM D882	>8 lbs./in
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 φ <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

Part Number Table

Description	Part Number
Static Shielding Bag, 127mm×660.4mm, PK100	010-0012

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