

Polyshield HD - Buried Metal Type Electrostatic Shielding Bags

Polyshield HD was developed specifically to provide electrostatic shielding for PCBAs, components and other electrostatic sensitive electronic assemblies.

It has been formulated to provide sensitive components with protection against electrostatic discharges combined with good optical clarity and low levels of ionic contamination.

Cost-effective ESD protection

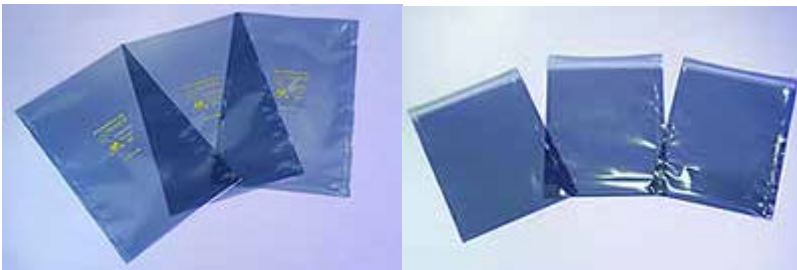
- Buried metal process provides reliable shielding
- High performance static protection
- Low ionic contamination
- RoHS compliant
- Available in wide range of sizes with short lead times

Available with zip lock.

Available with a resealable or permanent adhesive tape (as alternative to ziplock).

Available with anti-static bubble bag inside for extra protection.

Available in sheet form (rolls).



Product Data Sheet

Construction

Polyshield HD electrostatic shielding bags are buried-metal type, ensuring long term integrity of the metal layer.

Aluminium is sandwiched between 2 plastic layers to ensure that it will not oxidise or be exposed to abrasion, unlike outer metal bags.

Layer Stack Up

- Static dissipative coating
- Clear Polyester
- Vacuum Deposited Aluminium

- Low Outgassing Polyethylene
- Static dissipative coating

Physical Properties

Thickness: 75 microns (0.003")

Light Transmission: 40% +/-2%

Puncture Resistance: 219 N/mm² (ASTM E154)

Tensile Strength: 25 lb/in width (ASTM D882)

Tear Strength: 1.2 kg (Elmendorf)

Burst Strength: 90 psi (Mullen)

Electrical Properties

Inner Layer Surface Resistance: $<1 \times 10^{11}$ ohms (ANSI/ESD STM11.11-2001)

Outer Layer Surface Resistance: $<1 \times 10^{11}$ ohms (ANSI/ESD STM11.11-2001)

Inner Layer Charge Decay Rate: 5kV-50V <2.0 sec (FTMS 101C)

Outer Layer Charge Decay Rate: 5kV-50V <2.0 sec (FTMS 101C)

Metal Layer Shielding: Diff Voltage <20 V (EIA 541 Appendix E), CPT energy <15 nJ (ANSI/ESD STM11.31-2001)

Chemical Properties

Polycarbonate Compatibility: No attack @ 2500 psi, 158 deg F (EIA 564)

Silicone oil, amides, n-octanoic acid: None detected

RoHS compliant

Printing

ESD warning and manufacturing batch code printed in yellow

* Custom printing available

Packing

100 bags packed in a clean polythene bag

Common Sizes (Width x Length)

- 3" x 5"
- 4" x 6"
- 6" x 8"
- 7" x 10"
- 8" x 12"
- 12" x 18"
- 16" x 24"



Swiftmode Malaysia (Penang) Sdn. Bhd.
Menara Perdana
L101-09-13 Jalan Gurdwara
10300 Georgetown
Penang
Malaysia

Tel: +60 (0)4 227 8922
Fax: +60 (0)4 227 8539

Email: malaysia.sales@swiftmode.com

Swiftmode Asia Holdings Pte. Ltd.
21 Moonstone Lane
#04-02 Poh Leng Building
328462 Singapore

Tel: +65 (0)6 296 4260
Fax: +65 (0)6 296 8279

Email: sing.sales@swiftmode.com