

Metal-In Static Shielding Film/Bag

DATA Sheet

Metal in static shielding film/bag made out of VMPET/PE films for packaging ESD sensitive devices. Heat sealable, These bags are available with or without zipper, metal-in Shatic Shielding Films are designed for products requiring protection against Electrostatic Discharge (ESD). Static shielding bags provides properties intended to protect electronic devices and assemblies from Electrostaic Discharge (ESD) and to avoid charge accumulation on the bag that could be damaging to ESD susceptible devices and assemblies.

SPECIFICATIONS

Electrical properties

Surface Resistance Interior Metal Static Shielding Static Decay Charge Generation

Test Method Typical Values

ANSI/ESD STM 11.11

ANSI/ESD STM 11.31





Physical Properties

Material Thickness: **Light Transmission** Puncture Strength Seam Strength Heating sealing Conditions

Temperature Time Pressure Tensile Strength Visual inspection 3.1 mils±10% 40%+-5% ≥12.0 lbs No separation

<10E 11 ohms

<10E 11 ohms

< 0.03 seconds

100 ohms <15 nJ

<100 volts

250°F -375 °F 0.5 - 3.5 seconds 30 - 70 PSI > 5500 psi MD/TD No tears, holes, scratches, etc. ASTM D1003 MII -PRF-81705D MIL-PRF-81705D

ASTM D882

>0.5



Shown in open top configuration

Chemical Properties

Compliant to ROHS, REACH, Halogen free ETC requirement

Not detected

Material Structure

metal-in flat and zipper-closure static shield bags are made from industry-approved polyester/aluminum/polyethylene laminate. ESD bags are made from metallized plastic laminated to dissipative plastic. The metallization and plastic form a shield against discharge and Electric fields. The thickness of the metal layer is approximately 100

Shielding bags serve two purposes, preventing the ESD sensitive components sealed within the bag from charging up via field induction and protect the device from a direct contact (outer bag surface) with an ESD



Available flat with open top or with a zipper, adhesive tape or other style closure.

Tel: 01202 588900

Amines/Amides

Cleaning Performance

DHS Phenonis (BHT, lonol 2) and derivatives

Hydrocarbons and Others Ethyl Acetate

Total outgassing **NVR** Hexane/IPA **FTIR**

silicone oil

Single Anion TotalAnion

particle content

≤1200 particle /CM2

≤ 530 ng /cm2 <117g < 0.5 <170g

≤4.5ug/cm2

<5ng/cm2

≤ 0.0 1ug/cm2 Nitrate ≤ 0.0 6 ug/cm2

≤ 0. 10 ug/cm2

Talc:particles/CM2, Hard Particles: particles/cm2



