

Bag 1000 Metal-In Static Shielding Bags

MPK-1000 Metal-in Static Shielding Bags are transparent, metalized static shielding bags that provide a safe package for your ESD sensitive products. These bags are a four layer construction incorporating a polyester dielectric and metal layer to provide Faraday effect shielding of ESD and fields. Tribocharging is minimized by the specially processed polyethylene.

STANDARDS

Meets electrical and physical requirements of MIL-PRF-81705 Type III, EIA 541, EIA 625, MIL-HDBK 263, MIL-STD-1686 and EOS/ESD Standards.

SPECIFICATIONS

Physical Properties

Physical Properties	Typical Values
Thickness	3.1 mils. Nominal
Light Transmission	40%
Tensile Strength	≤ 4,000 psi
Seal Strength	Pass
Puncture Resistance	≤ 99
Puncture Resistance	≤ 22
MVTR	n/a
Heat Sealing Conditions	
Temperature	250°F - 375 °F
Time	0.5 - 3.5 seconds
Pressure	30 - 70 psi
Outgassing	Pass
Non-corrosive	Pass

Electrical Properties

Surface resistivity / Resistance	ASTM D257	or ANSI/ESD STM 11.11
Interior	< 10e ¹² ohms	or < 10e ¹¹ ohms
Exterior	< 10e ¹² ohms	or < 10e ¹¹ ohms
Metal	100 ohms	
Static Shielding	< 30 volts	EIA 541, MIL-PRF-81705
Static Shielding	< 10 nJ	EOS/ESD S11.31
Static Decay	< 0.05 segundos	FTMS 101 MTD 4046
Charge Generation		
Teflon	0.09 nC/sq. in.	Modified Incline Plane
Quartz	0.01 nC/sq. in.	

MP005
Tobias
ASTM D882
MIL-PRF-81705
ASTM D-7192 (N)
ASTM D-7192 (lbf)
ASTM F-1249 g/(100in² .day)

ASTM E595
FTMS 101 MTH 3005

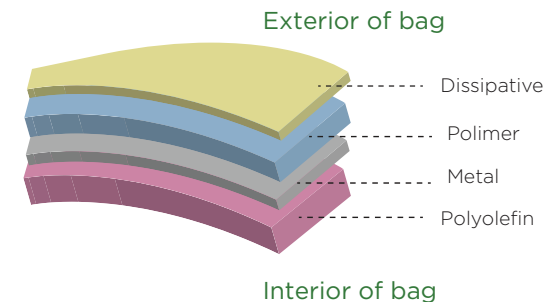
EIA 541, MIL-PRF-81705
EOS/ESD S11.31
FTMS 101 MTD 4046

Modified Incline Plane



Material Structure

Metal-in flat and zipper-closure static shield bags are made from industry-approved polyester/aluminum/polyethylene laminate. The polyester dielectric in concert with the metal layer provide Faraday Effect shielding ESD. The metal layer prevents penetration of damaging electrostatic fields. Tribocharging is minimized by the specially processed polyethylene.



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



STANDARD PRINT



Storage conditions:

- *Do not expose the product to temperatures above 40 ° C.
- *Do not place at a height of 2 meters.
- *Avoid direct exposure of the product to sunlight for longer times to 24 hours.