



# PRODUCT DATA SHEET

## MPK-1000 Metal-In Static Shielding Bags

Miller Packing's 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. The bags are available flat or with various style closures. Miller Packaging bags are coded for QC traceability.

### 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

Thickness	Typical Values 3.1 mils. Nominal	MP005
Light Transmission	40%	Tobias
Tensile Strength	> 25 lbs.	ASTM D882
Seal Strength	Pass	MIL-PRF-81705
Heat Sealing Conditions		
Temperature	250°F - 375 °F	
Time	0.5 – 3.5 seconds	
Pressure	30 – 70 psi	
Outgassing	Pass	ASTM E595
Non-corrosive	Pass	FTMS 101 MTH 3005

#### Electrical Properties

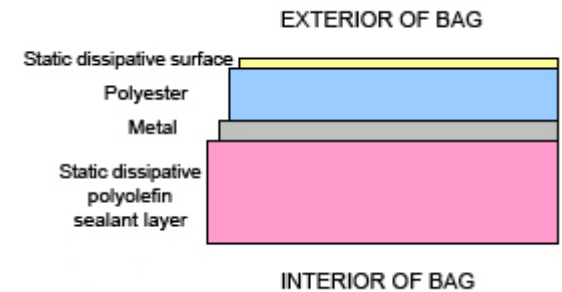
Surface resistivity / Resistance	ASTM D257	or ANSI/ESD STM 11.11
Interior	< 10 <sup>12</sup> ohms	or < 10 <sup>11</sup> ohms
Exterior	< 10 <sup>12</sup> ohms	or < 10 <sup>11</sup> ohms
Metal	100 ohms	
Static Shielding	< 30 volts	EIA 541, MIL-PRF-81705
Static Shielding	< 10 nJ	EOS/ESD S11.31
Static Decay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



MPK-1000 Metal-in Static Shielding Bag  
Shown in open top configuration

### Material Structure

MPK-1000 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.

## MPK-1000 Metal-In Static Shielding Bags

PRODUCT  
STATIC SHIELD  
METAL-IN  
VARIOUS CLOSURES AVAILABLE

DATASHEET  
MPK-1000-A

### Miller Packaging

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