



# PRODUCT DATA SHEET

## MPK-1500 METAL-OUT STATIC SHIELDING BAGS

Miller Packaging's MPK-1500 Metal-out 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 a metal layer to provide Faraday effect shielding of ESD and fields. The metal-out configuration provides low charge retention and rapid static decay. Tribocharging is minimized by the specially processed polyethylene. The bags are available flat or with various style closures. Miller Packaging bags are

### 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, and charge retention standards.

### Specifications

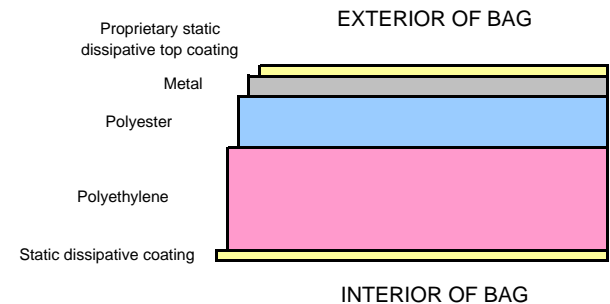
<i>Physical Properties:</i>	Typical Values	
Thickness	3.1 mils. nominal	MP005
Light Transmission	40%	Tobias
Tensile Strength	>20 lbs.	ASTM D882
Seal strength	Pass	MIL-PRF-81705
Heat Sealing Conditions		
Temperature	250°F – 375°F	
Time	0.5 - 3.5 seconds	
Pressure	30 - 70 psi	
Outgassing	Pass	ASTM E595
Non-corrosive	Pass	FTMS 101 MTH 3005
<i>Electrical Properties:</i>		
Surface resistivity / Resistance	ASTM D257	or ANSI/ESD STM 11.11
Interior	< 10 <sup>12</sup> ohms/square	or < 10 <sup>11</sup> ohms/square
Exterior	< 10 <sup>5</sup> ohms/square	or < 10 <sup>4</sup> ohms/square
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-1500 Metal-out Static Shielding Bag  
Shown in open top configuration

### Material Structure

MPK-1500 metal-out flat and zipper-closure static shield bags are made using a proprietary top coating and metal layer provide low charge retention and Faraday Effect shielding of ESD. The polyester dielectric stops the current from ESD and the metal layer prevents penetration of damaging electrostatic fields. Tribocharging is minimized by the specially processed polyethylene.



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



### MPK-1500 Metal-Out Static Shield Bag

PRODUCT  
STATIC SHIELD  
METAL-OUT  
VARIOUS CLOSURES AVAILABLE

DATASHEET  
MPK-1500-A

### Miller Packaging

To contact us please email: [info@millerbags.com](mailto:info@millerbags.com)  
In Mexico call: 333-692-6705  
In the USA call: 1-877-MILLPKG (1-877-645-5754)  
[www.millerbags.com](http://www.millerbags.com)

