



# PRODUCT DATA SHEET

## MPK-4400 Semi-transparent Static Shield / Moisture Barrier Bag

Miller Packing's MPK-4400 Semi-transparent Static Shield / Moisture Barrier Bags are made of multiple layers of Polyester and Polyethylene to provide a static shielding bag with moisture barrier properties. This semi-transparent bag provides protection for your ESD and moisture sensitive devices while allowing for visual inspection of the bag contents. Miller Packaging bags are coded for QC traceability.

### Standards

Meets electrical and physical requirements of MIL-PRF-81705I Type III, ANSI/ESD S20.20, ESD S541, EIA 625, and EOS/ESD Standards.

### Specifications

#### Physical Properties

MVTR (g/100sq. In./24 hrs)  
Puncture Resistance  
Thickness  
Tensile Strength  
Seal Strength  
Optical Density

#### Typical Values

< .05  
>23 lbs.  
4.2 mils. nominal  
20 lbs. / width  
>10 lbs.  
.035 - .045

ASTM F 1249  
FTMS 101 MTH 2065  
MP005  
ASTM D882  
MIL-PRF-81705

#### Electrical Properties

Surface resistivity / Resistance  
Interior  
Exterior  
Metal  
Static Shielding  
Static Shielding  
Static Decay  
Non-corrosive  
Outgassing

ASTM D257  
< 10<sup>12</sup> ohms/square  
< 10<sup>12</sup> ohms/square  
100 ohms  
< 15 volts  
< 10nJ  
< 0.03 seconds  
Pass  
Pass

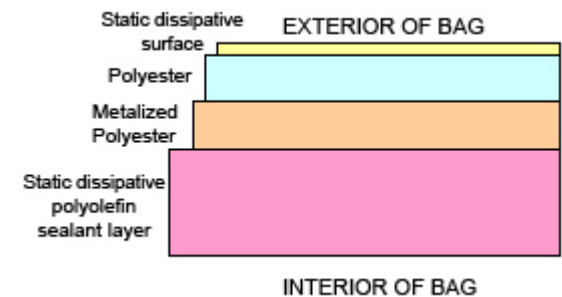
or ANSI/ESD STM 11.11  
or < 10<sup>11</sup> ohms/square  
or < 10<sup>11</sup> ohms/square  
EIA 541  
EOS/ESD S11.31  
FTMS 101 MTD 4046  
FTMS 101 MTD 3005  
ASTM E595



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### Material Structure

4 mils of polyester, metalized polyester and polyethylene provide static shielding, low Moisture Vapor Transmission Rate (MVTR) and transparency. This semi-transparent static shielding / moisture barrier bag meets or exceeds the ESD protective requirements of MIL-PRF-81705 Type III for packaging ESD sensitive electronics devices.



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### PRODUCT

FOIL MOISTURE BARRIER BAG  
STATIC SHIELD  
TRANSPARENT

### DATASHEET

MPK-4400-A

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