

# PRODUCT DATA SHEET

## MPK-2000 Economic Static Shield Moisture Barrier Bag



Extra Packaging's MPK-2000 Economic Moisture Barrier Bags are made of multiple layers of Metalized Polyester and Polyethylene to provide a cost-effective package for your ESD and moisture sensitive products. This highly flexible structure is easy to vacuum and seal. Extra Packaging bags are coded for QC traceability.

### Standards

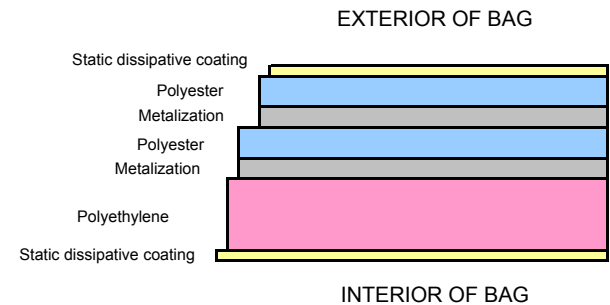
Meets electrical and physical requirements of MIL-PRF-81705 Type 1, EIA 583, EIA 541, EIA 625, and EOS/ESD Standards.

### Specifications

| <i>Physical Properties:</i>      | Typical Values                 |                                   |
|----------------------------------|--------------------------------|-----------------------------------|
| MVTR (g/100sq. In./24 hrs)       | <.02                           | ASTM F 1249                       |
| Puncture Resistance              | >20 lbs.                       | FTMS 101 MTH 2065                 |
| Thickness                        | 3.6 mils. nominal              | MP005                             |
| Tensile Strength                 | 40 lbs.                        | ASTM D882                         |
| Seal strength                    | Pass                           | MIL-PRF-81705                     |
| Heat Sealing Conditions          |                                |                                   |
| Temperature                      | 300°F – 400°F                  |                                   |
| Time                             | 0.6 - 4.5 seconds              |                                   |
| Pressure                         | 30 - 70 psi                    |                                   |
| <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>12</sup> ohms/square | or < 10 <sup>11</sup> ohms/square |
| Metal                            | 100 ohms                       |                                   |
| Static Shielding                 | < 20 volts                     | EIA 541                           |
| Static Shielding                 | < 10 nJ                        | EOS/ESD S11.31                    |
| EMI Attenuation                  | 45 db                          | MIL-PRF-81705                     |
| Static Decay                     | < 0.03 seconds                 | FTMS 101 MTD 4046                 |
| Non-corrosive                    | Pass                           | FTMS 101 MTD 3005                 |
| Outgassing                       | Pass                           | ASTM E595                         |

### Material Structure

3.6 mils of metalized polyester and polyethylene provide puncture resistance and protection against moisture vapor and ESD in an economical dry package. This moisture barrier bag meets or exceeds the moisture and ESD protective requirements MIL-PRF-81705 Type 1 and EIA 583.



### MPK-2000 Economical Moisture Barrier Bag

#### PRODUCT

METALIZED MOISTURE BARRIER BAG  
STATIC SHIELD  
ECONOMICAL

#### DATASHEET

MPK-2000-A

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