



# PRODUCT DATA SHEET

## MPK-3000 Foil Moisture Barrier Bag

Miller Packaging's MPK-3000 Foil Moisture Barrier Bags are made of multiple layers of Nylon, Foil and Polyethylene to provide a safe and effective package for your ESD and moisture sensitive products. This highly flexible structure is easy to vacuum and seal. The foil layer assures compliance with the Moisture Vapor Transmission Rating (MVTR) required by the IPC/JEDEC J-STD-033 specification for the handling, packaging and shipping of moisture-sensitive surface mount devices. Miller Packaging bags are coded for QC traceability.

### Standards

Meets electrical and physical requirements of IPC/JEDEC J-STD-033, MIL-PRF-81705 Type 1, EIA 583, EIA 541, EIA 625, and EOS/ESD Standards.

### Specifications

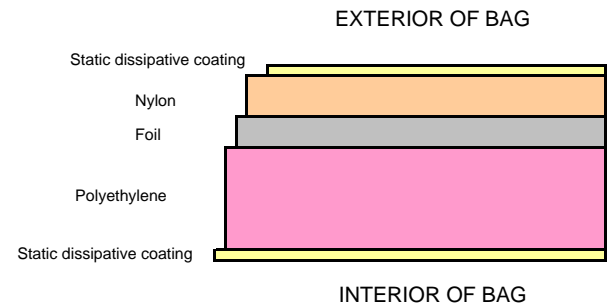
<i>Physical Properties:</i>	Typical Values	
MVTR (g/100sq. in./24 hrs)	<.0003	ASTM F 1249
Puncture Resistance	17 lbs.	FTMS 101 MTH 2065
Thickness	6.1 mils. nominal	MP005
Tensile Strength	>5500	ASTM D882
Seal strength	Pass	MIL-PRF-81705
Heat Sealing Conditions		
Temperature	300°F – 400°F	
Time	0.6 - 4.5 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	< 15 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



MPK-3000 Static Shield Moisture Barrier Bag

### Material Structure

6 mils of nylon, foil and polyethylene provide a low moisture vapor transmission rate (MVTR). This foil moisture barrier meets or exceeds the moisture and ESD protective requirements of IPC/JEDEC J-STD-033, MIL-PRF-81705 Type 1 and EIA 583 for packaging ESD and moisture sensitive electronics devices.



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PRODUCT  
FOIL MOISTURE BARRIER BAG  
STATIC SHIELD

DATASHEET  
MPK-3000-A

## Miller Packaging

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