



PRODUCT DATA SHEET

MPK-5000 Metalized Tyvek® EMI/Static Shield Moisture Barrier Bag

Miller Packing's MPK-5000 Metalized Tyvek® High Strength Foil Moisture Barrier Bags are made of multiple layers of Metalized Tyvek®, Foil and Polyethylene to provide a conductive outer surface for low static charge retention, superior tear resistance, and compliance with Moisture Vapor Transmission Rate (MVTR) required by the IPC/JEDEC J-STD-033 specification for handling, packaging and shipping of moisture-sensitive surface mount devices. Miller Packaging bags are coded for QC traceability.

Standards

Meets the moisture protective requirements of IPC/JEDEC J-STD-033, EIA 583 and MIL-PRF-81705 Type I Class I.

Specifications

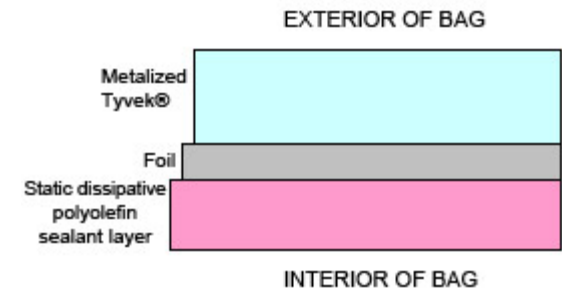
<i>Physical Properties</i>	Typical Values	
MVTR (g/100sq. In./24 hrs)	< .0006	ASTM F 1249
Puncture Resistance	10 lbs.	FTMS 101 MTH 2065
Thickness	10 mils. nominal	MP005
Tensile Strength	>40 lbs.	ASTM D882
Seal Strength	Pass / >10 lbs.	MIL-PRF-81705 / ASTM D882
Heat Sealing Conditions		
Temperature	300°F - 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 ¹⁵ ohms/square	or < 10 ¹⁴ ohms/square
Exterior	< 10 ² ohms/square	or < 10 ² ohms/square
Static Shielding	< 10 volts	EIA 541
Static Shielding	< 10 nJ	EOS/ESD S11.31
EMI Attenuation	>39 db	MIL-PRF-81705
Static Decay	< 0.02 seconds	FTMS 101 MTD 4046



MPK-5000 Static Shield Moisture Barrier Bag

Material Structure

10 mils of metalized Tyvek®, foil and polyethylene provide low charge retention and a low Moisture Vapor Transmission Rate (MVTR). This foil barrier bag meets or exceeds the ESD protective requirements of IPC/JEDEC-STD-033 and EIA 583 for packaging moisture sensitive electronics devices.



MPK-5000 Metalized Tyvek® Foil Barrier Bag

PRODUCT
 METALIZED TYVEK® EXTERIOR
 FOIL MOISTURE BARRIER BAG
 STATIC SHIELD

DATASHEET
 MPK-5000-A

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