



## Moisture Barrier Bag\_ANT018MBB

### Features:

- Protects electronics from moisture and static damage
- Opaque and light tight ensuring the inside item can not be seen from outside
- Firm lamination and hot sealing offers superior resistance of vapour and oxygen
- Surface resistance of  $10^8$ - $10^{11}\Omega$
- Customized printing is available
- These bags are ideal for transporting and storing sensitive device such as circuit boards and electronic components.
- Available in 3.6 / 4.4 and 6.1Mil thicknesses
- Flexible structure & easy to vacuum seal

### Additional Notes:

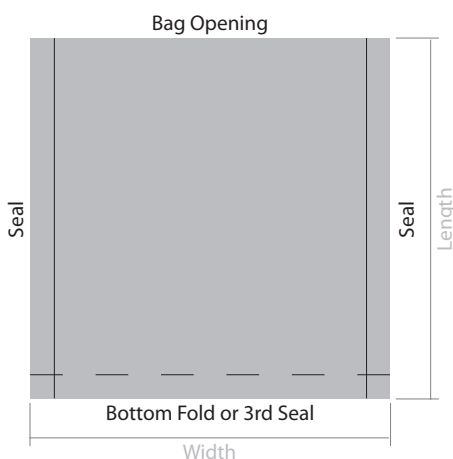
We recommend that all of our moisture barrier bags be used within 2 years from the date of manufacture. Store this product in its original packaging in a climate-controlled environment where temperature ranges from 21°C -23°C and relative humidity is 45 - 50%.



Aluminized Polyester
Dissipative Nylon
Cast Polyethylene

### Standard Construction:

Our moisture barrier bags are constructed in 3 layers. The bag features an anti static metallized polyester outer layer and an anti static inner layer. In between are layers of polyethylene, nylon and an aluminium foil shield.



### Configuration(s):

Our bags are available in custom sizes or in several industry standard sizes. Bags are offered in a 3-seal configuration, with our standard flexographically printed artwork. Our bags can also be personalised with your company logo on any bespoke orders.

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### Standard Bag Artwork:


Our moisture barrier bags are produced with the following sample artwork as standard. For further information on bespoke/printed orders, please contact one of our sales team. Please note there is a MOQ of 20,000 bags on all printed bags.

Note: All of our moisture barrier bags are batch coded for QC traceability.

	<p><b>CAUTION</b> This bag contains <b>MOISTURE SENSITIVE DEVICES</b></p>	<p><b>LEVEL</b></p> <div style="border: 1px solid black; width: 30px; height: 30px; margin: 0 auto;"></div> <p><small>If blank, see adjacent label.</small></p>
<p>1. Calculated shelf life in sealed bag: 12 months at &lt;40°C and &lt;90% relative humidity (RH)</p> <p>2. Peak package body temperature: _____ °C</p> <p>3. After bag is opened, devices that will be subjected to reflow solder or other high temperature process must:</p> <p style="margin-left: 20px;">a) Mounted within _____ hours of factory conditions &lt;30°C/60% RH <small>If blank, see adjacent label.</small></p> <p style="margin-left: 40px;">OR</p> <p style="margin-left: 20px;">b) Stored at &lt;10% RH</p> <p>4. Devices require bake, before mounting, if:</p> <p style="margin-left: 20px;">a) Humidity Indicator Card is &gt;10% when read at 23 +/- 5°C</p> <p style="margin-left: 20px;">b) 3a or 3b not met</p> <p>5. If baking is required, devices may be baked for 48 hours at 125 +/- 5°C</p> <p><small>Note: If device containers cannot be subjected to high temperature or shorter bake times are desired, reference IPC/JEDEC J-STD-033 for bake procedure.</small></p> <p><b>Bag Seal Date:</b> _____ <small>If blank, see adjacent label.</small></p> <p><small>Note: Level and body temperature defined by IPC/JEDEC J-STD-020</small></p>		


LEVEL	FLOOR LIFE (OUT OF THE BAG) AT FACTORY AMBIENT 30°C / 60% RH OR AS STATED
1	Unlimited at 30°C / 85% RH
2	1 Year
2a	4 Weeks
3	168 Hours
4	72 Hours
5	48 Hours
5a	24 Hours
6	Mandatory bake before use. After bake must be reflowed within the time limit specified on the label.

MOISTURE BARRIER BAG  
ANT018MBB  
THIS BAG IS ROHS COMPLIANT







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**ATTENTION**  
THIS BAG CONTAINS  
MOISTURE & ELECTROSTATIC  
SENSITIVE DEVICES




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CONFORMS TO  
IPC/JEDEC J-STD-033

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### Test Conditions:

The following results were taken under the following environmental test conditions:

Temperature: 21.3°C / Humidity: 45.1%



### Technical Parameters:

Item:	Test Standard:	Result:
Film Composition	N/A	PET-AL/NY/CPE
Metal Layer Resistance	ASTMD-257	<0.1 Ω
Inner and Outer Resistance	ASTMD-257	10 <sup>8</sup> - 10 <sup>11</sup> Ω
EMI Shielding	MIL-B-81705-C	>60db
Static Shielding - Capacitance Probe	EIA541 (Voltage Difference)	<10V
Moisture Vapour Transmission (at 90%RH, 23°C)	ASTMF1249-2005	0.0006 gm/100sq.in/24hrs
Tensile Strength	ASTM D882	MD/TD >24lbs/in
Puncture Resistance	ASTM F1306-90(2002)	Inner to Outer: 54.7N Outer to Inner: 51.3N
Tear Strength	ASTM D1004	MD >3lbs/in TD >3.8lbs/in
Heat Seal Temperature	-	250-375 F
Heat Seal Time	-	0.5-3.5 sec
Heat Seal Pressure	-	30-70 PSI
Seal Strength	GB/96-04-10	>3kg/cm
Contact Corrosivity	FTMS 101C Method 3005	No visible spots detected
Static Decay Time	IEC61340-5-1 (±1000 - ±100V)	≤2S

### Test Conclusion: (Date of Issue: 2009-08-16)

The anti-static moisture barrier bag is tested accordant with the relevant test standard and requirements.

Test Item:	Test Method:	Measured Equipment(s):	MDL:
Lead (Pb)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2mg/kg
Cadmium (Cd)	IEC 62321:2008 Ed.1 Sec.8	ICP-OES	2mg/kg
Mercury (Hg)	IEC 62321:2008 Ed.1 Sec.7	ICP-OES	2mg/kg
Hexavalent Chromium (Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis	2mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS	5mg/kg

EMI Shielding: Meets required range of EN 61340-5-1 tested per IEC 61340-2-3 and ANSI/ESD STM11.31

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Product Code:	Description:	Size (inches):	Size (mm):	Additional Notes:
018-0404	Moisture Barrier Bag 3.6Mil / 92 microns	6 x 26	152.4 x 660.4	Pack of 100
018-0001	Moisture Barrier Bag 3.6Mil / 92 microns	6 x 28	152.4 x 711.2	Pack of 100
018-0400	Moisture Barrier Bag 3.6Mil / 92 microns	10 x 20	254 x 508	Pack of 100
018-0401	Moisture Barrier Bag 3.6Mil / 92 microns	10 x 24	254 x 610	Pack of 100
018-0301	Moisture Barrier Bag 3.6Mil / 92 microns	10 x 26	254 x 660.4	Pack of 100
018-0402	Moisture Barrier Bag 3.6Mil / 92 microns	12 x 20	304.8 x 508	Pack of 100
018-0007	Moisture Barrier Bag 3.6Mil / 92 microns	16 x 18	406 x 457	Pack of 100
018-0403	Moisture Barrier Bag 3.6Mil / 92 microns	18 x 18	457 x 457	Pack of 100
018-0300	Moisture Barrier Bag 3.6Mil / 92 microns	22 x 24	558.8 x 609.6	Pack of 100

Note: Other sizes and thicknesses available upon request.

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