

**RoHS  
Compliant**

## 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  $10^8 \sim 10^{11} \Omega$
- These bags are ideal for transporting and storing sensitive devices such as circuit boards and electronic components.
- Available in 3.6 / 4.4 and 6Mil thicknesses
- Flexible structure & easy to vacuum seal

## 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.

## 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.

**CAUTION**  
MOISTURE SENSITIVE DEVICES

1. Do not touch the inside surface of the bag (12 months at <math>+40^{\circ}\text{C}</math> and 40% relative humidity RH)

2. Peak package body temperature: \_\_\_\_\_ $^{\circ}\text{C}$

3. After bag is opened, devices that will be subjected to yellow sulfur or other high temperature processes must:

a) Moisture with \_\_\_\_\_ hours of factory conditions <math>< 40^{\circ}\text{C}</math> / 60% RH OR

b) Store at <math>< 10^{\circ}\text{C}</math> / 30

4. Devices are not stable before reworking. If:

a) Humidity Balance Control > 10% when read at 23  $\pm$  3 $^{\circ}\text{C}$  <math>\pm 10</math> sec 30 minutes

5. If testing is required, devices may be baked for 48 hours at 125  $\pm$  5 $^{\circ}\text{C}$

Note: If device containers cannot be subjected to high temperature or shorter bake times are desired, reference IPC/JEDEC J-STD-033 for bake procedures.

**Bag Seal Date:** \_\_\_\_\_

Note: Seal and body temperature defined by IPC/JEDEC J-STD-033

Lot #	Lot # (Last 40 characters of the lot number)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	

MOISTURE BARRIER BAG  
ANTO18MBB  
THIS BAG IS ROHS COMPLIANT

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

CONFORMS TO  
IPC/JEDEC J-STD-033  
20MBB

## Test Conditions

The following results were taken under the following environmental test conditions: Temperature: 21.3°C / Humidity: 45.1%

Item	Test Standard	Result
Film Composition	N/A	PET-AL/NY/CPE
Metal Layer Resistance	ASTMD-257	<math>< 0.1 \Omega</math>
Inner and Outer Resistance	ASTMD-257	$10^8 - 10^{11} \Omega$
Static Shielding - Capacitance Probe	EIA541 (Voltage Difference)	<math>< 10\text{V}</math>
Moisture Vapour Transmission (at 90%RH, 23°C)	ASTMF1249-2005	0.02 gm/100sq.in/24hrs
Tensile Strength	ASTM D882	MD/TD >24lbs/in

# Moisture Barrier Bag



Item	Test Standard	Result
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

The shielding bag is tested accordance with the relevant test standard & 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

## Part Number Table

Description	Part Number
Moisture Barrier Bag 3.6Mil / 92 microns, 203.2mm×508mm, PK100	MC0180133

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