

**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** LEVEL 1

**MOISTURE SENSITIVE DEVICES**

1. Do not touch the surface of the bag for 12 months at +4°C and -40°C relative humidity (RH).
2. Peak package body temperature: \_\_\_\_\_ °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 <40°C / 60% RH (RH)
- b) Store at <10% RH
4. Devices are not stable before reworking:
  - 4a. Maximum Exposure Cycle: <10% when used at 23 ± 3°C
  - 4b. See 5 for rework
5. If rework is required, devices may be baked for 48 hours at 125 ± 5°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 # (Lot # is unique to this container)
1	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	

**MOISTURE BARRIER BAG**  
ANTO18M8B  
THIS BAG IS ROHS COMPLIANT

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

CONFORMS TO  
IPC/JEDEC J-STD-033  
2018B

## 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	<0.1Ω
Inner and Outer Resistance	ASTMD-257	$10^8 - 10^{11} \Omega$
Static Shielding - Capacitance Probe	EIA541 (Voltage Difference)	<10V
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, 152.4mm×304.8mm, PK100	MC0180131

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