

**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 of the bag for 12 months at +40°C and 90% 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 <0°C / 60% RH (RH = 100% relative humidity)

b) Stored at <10% RH

4. Devices are not static sensitive meeting:

a) Human Body Electrostatic Discharge >10kV when used at 23 ± 3°C <30 Sec 30 sec max

5. If testing 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: Lead 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	_____
0	_____

MOISTURE BARRIER BAG
ANTO18MBB
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×660.4mm, PK100	MC0180134

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