

Metallised Barrier Bags

MOI-80

Description

A cheaper alternative to the 100 micron Moisture Barrier Bags, Metallised Barrier Bags are designed for the safe packing of SMDs; protecting them from moisture and static damage. Dry devices are placed inside the Metallised Barrier Bag and the moisture laden air is evacuated. Metallised Barrier Bags are Jedec compliant; enabling you to safely transport Jedec Trays. Each bag has a layer of aluminium that blocks the moisture. Metallised Barrier Bags are opaque and light-tight ensuring the contents cannot be seen from the outside. The 3.1mil thick, puncture-resistant packaging is suitable for vacuum-sealing and heat-sealing. Supplied in packs of 100 pieces.



Bespoke sizes and thicknesses available on request

Key Features


- Protects electronic components from moisture and static damage
- All bags are supplied in packs of 100 pieces
- Vacuum-sealable
- Puncture-resistant
- Bags are heat-sealable with 'Faraday Cage' protection
- Suitable for the safe packing of SMDs, PCBs or integrated circuits
- Jedec compliant, allowing safe transport of Jedec trays
- Made with a layer of aluminium that blocks the moisture
- 3.1mil thick as standard (80 microns)
- Recommended temperature for welding 150-200°C
- ESD symbol printed on the bags as standard
- Bespoke sizes and thicknesses available on request

Construction

Static dissipative coating, static dissipative polyester, aluminium shield, static dissipative propylene



ESD Standards & Regulations Met

 RoHS compliant	 European Conformity	 MTH2065	 ASTM D-638
 REACH compliant	 IEC 61340-5-1	 GB/T 1040	 GB/T 16578-96
 ANSI/ESD S20.20	 IPC/JEDEC J-STD-033	 ISO 527-2	 ASTM D1938-02
 STM11.31 2006	 MIL-B-81705C Type 1	 ASTM D639-03	 ASTM D- 1876-72
 EIA541	 FTMS101		

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Properties	Unit	
Surface Resistivity / Resistance	ANSI/ESD S11.11	
Interior	$>10^{(6)} <10^{(11)}$ ohms/square	$>10^{(6)} <10^{(11)}$ ohms/square
Exterior	$>10^{(6)} <10^{(11)}$ ohms/square	$>10^{(6)} <10^{(11)}$ ohms/square
Static Shielding	<30 volts STM11.31	
Static Shielding	<50 nj STM11.31.2006	
Static Decay	<2 seconds IEC61340-5-1-1998	
Charge Retention	<100 volts IEC61340-5-1-1998	
Puncture Strength	≥ 10.2 kg FTMS101, MTH2065	
Burst Strength	146 kg/cm ⁽²⁾ ASTM D-638	
Snap Power	≥ 3.7 kg GB/T 1040-2006	
(Vertical and Horizontal)	ISO 527-2:1993	
Elongation Rate at Break	≥ 3.3 kg ASTM D-638	
Tear Strength	≥ 0.6 kg GB/T 16578-96	
(Vertical and Horizontal)	ASTM D1004-03 ASTM D1938-02	
Peel Strength	≥ 0.5 kg	
Heat Seal Strength	≥ 3.7 kg ASTM D-1876-72	
Water Vapour Transmission Rate (WVTR)	≤ 0.002 (ANSI/EIA 583 ASTM F1249 (230c 90%RH)	
Thickness	80micron (3.1 mils) +/- 10%	
OTR-Oxygen Transmission Rate	≤ 1.4 cm ⁽³⁾ /(m ² .24h.0.1MPa) ASTM D3985	
Shelf-Life	≥ 3 years	
Appearance	Clean. No wrinkle, surface scratch, damage, pin hole, delimitation, void. No separation on the encapsulation.	PASS

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Part Code	Size (inches)	Size (mm)
MOI46-80	4" x 6"	102 x 152 mm
MOI630-80	6" x 30"	152 x 762 mm
MOI810-80	8" x 10"	203 x 254 mm
MOI812-80	8" x 12"	203 x 305 mm
MOI1014-80	10" x 14"	254 x 355 mm
MOI1020-80	10" x 20"	254 x 508 mm
MOI1030-80	10" x 30"	254 x 762 mm
MOI1115-80	11" x 15"	280 x 380 mm
MOI1218-80	12" x 18"	305 x 457 mm
MOI1420-80	14" x 20"	355 x 508 mm
MOI1618-80	16" x 18"	406 x 457 mm
MOI1820-80	18" x 20"	457 x 508 mm
MOI1824-80	18" x 24"	457 x 610 mm

Bags have a batch number for QA traceability. All custom sizes and thicknesses can be made to specific requirements. For a large volume quantity order or a bespoke quotation, please get in touch.

Before each use, ensure that there are no wrinkles or surface scratch, damage or pin holes. All bags should be used with a humidity indicator card and desiccant.





Eliminate Costly Static Damage...

Whether you are experiencing unacceptable levels of damage in transit, need a specific cleanroom solution or simply don't know which ESD safe equipment is best for you, we can help!

Request complimentary,
no obligation advice by
speaking with one of
our technical experts
today.

