



Moisture Barrier Bags

MOI - Available in different sizes

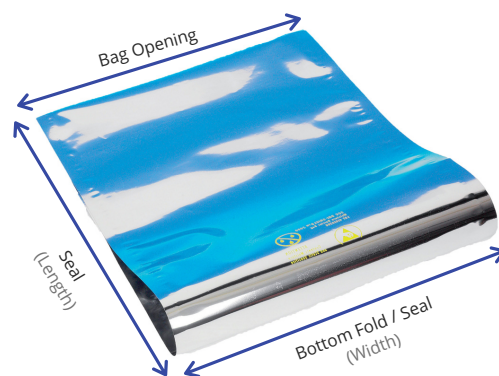
Description

Moisture Barrier Bags are designed for the packing of SMDs; protecting them from moisture and static damage. Moisture Barrier Bags protect electronics from moisture and static damage during storage and transportation. These bags are ideal for storing static sensitive devices in humid environments. Moisture Barrier Bags are Jedec compliant; enabling you to safely transport Jedec Trays. Each bag has a layer of aluminium that blocks the moisture. All bags should be used with a humidity indicator card and desiccant.

The bags are opaque and light-tight ensuring the contents cannot be seen from the outside; adding a layer of operational security. Our Moisture Barrier Bags are suitable for packing electronic products which are sensitive to moisture and static e.g. PCBs or integrated circuits. The 4mil puncture-resistant and moisture-proof packaging has a flexible structure and is suitable for vacuum-sealing. All bags are supplied in packs of 100pcs and as standard have the ESD symbol printed on the bags.

Features

- Protects electronics from moisture and static damage during storage and transportation.
- Ideal for storing static sensitive devices in humid environments.
- Jedec compliant, allowing you to safely transport Jedec Trays.
- Manufactured from a layer of aluminum that blocks the moisture.
- Bags are heat-sealable with 'Faraday Cage' protection.
- Bags are vacuum-sealable and opaque.
- The recommended temperature for welding 150-200°C.
- Ideal for PCB's or integrated circuits.
- Each bag is RoHS and REACH compliant.
- Bespoke sizes, thickness, printing and packaging solutions can be manufactured on request.



Note: 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.

Standards

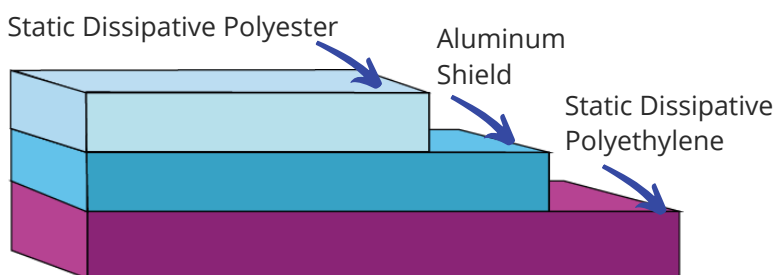
Meets the requirements of the joint IPC / JEDEC J-STD-033, ANSI/ESD S20.20, STM11.31 2006, EIA541, MIL-B-81705C Type 1, IEC 61340-5-1, FTMS101, MTH2065, GB/T 1040, ISO 527-2: , ASTM D639-03, ASTM D-638, GB/T 16578-96, ASTM D1938-02, ASTM D-1876-72.





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Construction

The 4mil puncture-resistant and moisture-proof packaging has a flexible structure and is suitable for vacuum-sealing.

Appearance

Clean. No wrinkle, surface scratch, damage, pin hole, delimitation, void. No separation on the encapsulation.	Pass
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Electrical Properties

Typical Values

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
Charge Retention	<100 volts IEC61340-5-1-1998

Physical Properties

Typical Values

Puncture Strength	≥ 10.2 kg FTMS101, MTH2065
Burst Strength	146kg/cm ² ASTM D-638
Snap Power	≥ 3.7 kg GB/T 1040-2006
(Vertical and Horizontal)	ISO 527-2:1993 ASTM D639-03
Elongation Rate At Break	≥ 3.3 kg ASTM D-638





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Physical Properties	Typical Values
Tear Strength	≥0.6kg GB/T 16578-96
(Vertical and Horizontal)	ASTM D1004-03 ASTM D1938-02
Peel Strength	≥0.5kg
Heat Seal Strength	≥3.7kg ASTM D-1876-72
WVTR Water Vapour	≤0.006 (ANSI/EIA 583 ASTM F1249 (230c 90%RH) class 1) g/100sq.in./24 hrs
Thickness	100micron (4 mils) +/- 10%
OTR-Oxygen Transmission Rate	≤1.4cm ³ /(m ² .24h.0.1MPa) ASTM D3985
Shelf-Life	≥3 years

Reference	Size (inches)	Size (mm)
MOI1630	16" x 30"	152 x 762 mm
MOI1012	10" x 12"	254 x 305 mm
MOI1020	10" x 20"	254 x 508 mm
MOI1024	10" x 24"	254 x 610 mm
MOI1218	12" x 18"	305 x 457 mm
MOI1618	16" x 18"	406 x 457 mm
MOI1820	18" x 20"	457 x 508 mm

Bags have a batch number for QA traceability. All custom sizes can be manufactured to specific requirements. Standard size chart available. For large quantities or a bespoke quotation, please contact us and we'll be in touch with you.

See related items: **Humidity Indicator Cards** and **Desiccant bags** →



Important Notice: The information contained within this spec sheet is for guidance only. We make no warranties expressed or implied and assume no liability regarding any use of this information. Moisture Barrier Bags, March 8th 2021.