

# Moisture Barrier Bags

## Description

Moisture Barrier Bags are designed for the safe packing of SMDs; protecting them from moisture and static damage. Dry devices are placed inside the Moisture Barrier Bag and the moisture laden air is evacuated. Suitable for storing static and moisture-sensitive electronic components in humid environments. Moisture Barrier Bags are Jedec compliant; allowing for the safe transportation of Jedec Trays. The bags have a layer of aluminium that blocks the moisture along with 'Faraday cage' protection. Moisture Barrier Bags are opaque and light-tight ensuring the contents cannot be seen from the outside. The 4mil puncture-resistant packaging is suitable for vacuum-sealing and heat-sealing. Supplied in packs of 100 pieces.



## Key Features

- Protects electronic components from moisture and static damage
- Suitable for storing components in humid environments
- Jedec compliant, allowing you to safely transport Jedec Trays
- Made with a layer of aluminium that blocks the moisture
- Bags are heat-sealable with 'Faraday Cage' protection
- Vacuum-sealable
- Light-tight and opaque
- Puncture-resistant
- 4mil thick (100 microns) as standard, in packs of 100pcs
- Printed with a yellow ESD symbol on packaging
- Recommended temperature for welding is 150-200°C
- Suitable for packing SMDs, PCBs, integrated circuits

## Construction

Static dissipative polyester, aluminium shield, static dissipative polyethylene



## ESD Standards & Regulations Met

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



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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	
Charge Retention	$<100$ volts IEC61340-5-1-1998	
Puncture Strength	$\geq 10.2$ kg FTMS101, MTH2065	
Burst Strength	146kg/cm <sup>2</sup> ASTM D-638	
Snap Power	$\geq 3.7$ kg GB/T 1040-2006	
(Vertical and Horizontal)	ISO 527-2:1993 ASTM D639-03	
Elongation Rate at Break	$\geq 3.3$ kg ASTM D-638	
Tear Strength	$\geq 0.6$ kg GB/T 16578-96	
(Vertical and Horizontal)	ASTM D1004-03 ASTM D1938-02	
Peel Strength	$\geq 0.5$ kg	
Heat Seal Strength	$\geq 3.7$ kg ASTM D-1876-72	
Water Vapour Transmission Rate (WVTR)	$\leq 0.0310$ g/m <sup>2</sup> (0.002 g/100 in <sup>2</sup> ) in 24 hours at 40°C after flex testing per condition "E" ASTM F 392. (ASTM F 1249)	
Thickness	100micron (4 mils) +/- 10%	
OTR-Oxygen Transmission Rate	$\leq 1.4$ cm <sup>3</sup> /(m <sup>2</sup> .24h.0.1MPa) ASTM D3985	
Shelf-Life	$\geq 3$ years	
Appearance	Clean. No wrinkle, surface scratch, damage, pin hole, delimitation, void. No separation on the encapsulation.	PASS