

## Description

Moisture barrier bags are designed for the packaging of SMD's, protecting them from moisture and static damage. Dry devices are placed inside the Moisture Barrier Bag and the moisture laden air is evacuated.

Desiccant filled pouches scavenge the remaining moisture from the bags interior which is entrapped by the desiccant. Humidity Indicator Cards report the effectiveness of the package upon device use.

## Features

- Bags are Jedec compliant
- Bags are Heat Sealable
- Faraday Cage protection
- 100 microns (4mil) thick as standard
- ESD & Moisture symbols are printed on the bags as standard

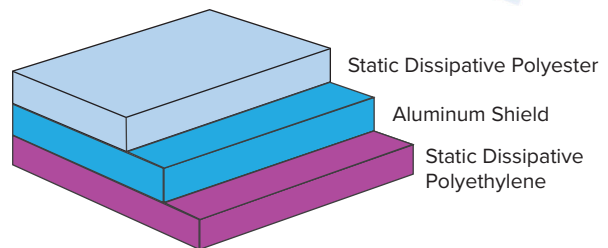
## Standards

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, MIL-B-131-H type 1.

## Extra Details

- The recommended temperature for welding 150-200°C
- Bespoke packaging sizes and thicknesses available upon request
- Ensure no wrinkles or surface scratch, damage or pin holes
- Ideal for storing static sensitive devices in humid environments

## ESD Moisture Barrier Bags 100um Foil Structure



## Construction

The 100 microns (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

Etek Europe Ltd  
Etek Technology Centre,  
Prestwick International Aerospace Park,  
Prestwick, KA9 2TU

+44(0)1292 834 000

sales@etek-europe.com

etek-europe.com



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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	$\geq 10.2$ 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 D1938-0
Peel Strength	$\geq 0.5$ kg
Heat Seal Strength	$\geq 3.7$ kg ASTM D-1876-72
WVTR Water Vapour	$\leq 0.006$ (ANSI/EIA 583 ASTM F1249 (230c 90%RH) class 1) g/100sq.in./24 hrs
Thickness	100micron (4 mils) +/- 10%
OTR-Oxygen Transmission Rate	$\leq 1.4$ cm <sup>3</sup> /(m <sup>2</sup> .24h.0.1MPa) ASTM D3985
Shelf-Life	$\geq 3$ years

Other sizes available upon request

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## EK-MBB100 Sizes

Reference	Size (inches)	Size (mm)
EK-MBB46	4" x 6"	102x152mm
EK-MBB630	6" x 30"	152x762mm
EK-MBB810	8" x 10"	203x254mm
EK-MBB812	8" x 12"	203x305mm
EK-MBB1012	10" x 12"	254x305mm
EK-MBB1014	10" x 14"	254x356mm
EK-MBB1020	10" x 20"	254x508mm
EK-MBB1024	10" x 24"	254x610mm
EK-MBB1030	10" x 30"	254x762mm
EK-MBB1216	12" x 16"	305x406mm
EK-MBB1218	12" x 18"	305x457mm
EK-MBB1420	14" x 20"	356x508mm
EK-MBB1618	16" x 18"	406x457mm
EK-MBB1719	17" x 19"	432x483mm
EK-MBB1820	18" x 20"	457x508mm

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