

Static Shielding Bags

MB, LTM - Available in different sizes

TECHNICAL DATASHEET

Description

Static Shielding Bags provide a complete static safe environment for the safe storage and transportation of static sensitive devices and printed circuit boards; ensuring easy identification. Static Shielding Bags provide a 'Faraday Cage' for holding static sensitive components when they are to be handled outside of an Electrostatic Protected Area (EPA). These bags meet the requirements of ESD STM11. 31-2006, EIA541, MIL-PRF-81705, ANSI/ESD S20.20. All bags are 75 microns thick, RoHS compliant and are supplied with a yellow ESD symbol as standard. They are available in open top or resealable loc-top and are supplied in packs of 100pcs. Bags are silver in colour.



Open-Top (MB)



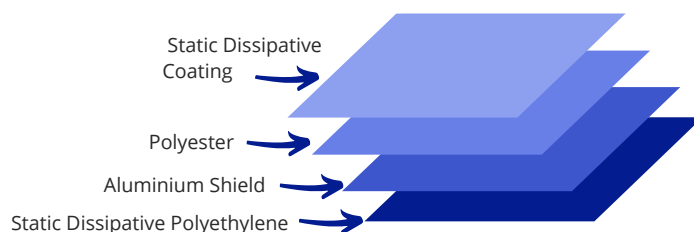
Resealable Loc-Top (LTM)

Features

- ⚡ Suitable for packing electronic products which are static sensitive.
- ⚡ Semi-transparent for easy identification of component.
- ⚡ All bags are 75 microns thick and are supplied in packs of 100pcs.
- ⚡ Full-size range is available in stock.
- ⚡ Meets the requirements of ESD STM11. 31-2006, EIA541, MIL-PRF-81705, ANSI/ESD S20.20.
- ⚡ Available in open top and loc-top resealable.
- ⚡ Faraday Cage effect.
- ⚡ Bags can be closed temporarily with ESD warning label.
- ⚡ Each bag is RoHS and REACH compliant.
- ⚡ Bespoke sizes, thickness, printing and packaging solutions can be manufactured on request.

Construction

Our shielding bags are manufactured with industry approved polyester and polyethylene laminates. The polyester layer works with the metal layer to provide a Faraday Cage. The Polyethylene layer prevents turbocharging.



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Technical Properties

Electrical Properties	Typical Values
Surface Resistivity / Resistance	STM11.31-2006/MIL-STD-3010 2046
Interior	$>10^6$ $<10^{11}$ ohms/squares $>10^6$ $>10^{11}$ ohms/squares
Exterior	$>10^6$ $<10^{11}$ ohms/squares $>10^6$ $<10^{11}$ ohms/squares
Static Shielding	<30 volts STM11.31-2006/EIA541/MIL81705
Static Shielding	<50 nJ STM11.31-2006
Static Decay	<2 seconds IEC61340-5-1-1998
Charge Retention	<100 volts IEC61340-5-1-1998
Size Tolerances	± 3 mm $\pm 15\%$

Physical Properties	Typical Values
Tensile Strength	>20 lbs ASTM D 882
Seam Strength	Pass MIL-PRF-81705
Light Transmission	35-40% Tobias

Heat Sealing Conditions	Typical Values
Temperature	1800°C – 2500°C
Time	0.5 - 3.5 seconds
Pressure	30 - 70 PSI
Thickness	75um $\pm 10\%$
Outgassing	Pass ASTM E595
Non-Corrosive	Pass FTMS 101 MTH 3005

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MB, LTM - Available in different sizes

Open Top Bag - Standard sizes (Packs of 100)

Reference	Size (inches)	Size (mm)
MB23	2" x 3"	50 x 76 mm
MB26	2" x 6"	50 x 152 mm
MB33	3" x 3"	76 x 76 mm
MB35	3" x 5"	76 x 127 mm
MB46	4" x 6"	102 x 152 mm
MB424	4" x 24"	102 x 610 mm
MB426	4" x 26"	102 x 660 mm
MB430	4" x 30"	102 x 762 mm
MB58	5" x 8"	127 x 203 mm
MB68	6" x 8"	152 x 203 mm
MB610	6" x 10"	152 x 254 mm
MB612	6" x 12"	152 x 305 mm
MB616	6" x 16"	152 x 406 mm
MB626	6" x 26"	152 x 660 mm
MB630	6" x 30"	152 x 762 mm
MB716	7" x 16"	178 x 406 mm
MB810	8" x 10"	203 x 254 mm
MB812	8" x 12"	203 x 305 mm
MB816	8" x 16"	203 x 406 mm
MB1012	10" x 12"	254 x 305 mm
MB1014	10" x 14"	254 x 355 mm

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MB, LTM - Available in different sizes

Loc-Top Resealable - Standard Sizes (Packs of 100)

Reference	Size (inches)	Size (mm)
LTM23	2" x 3"	50 x 76 mm
LTM33	3" x 3"	76 x 76 mm
LTM35	3" x 5"	76 x 127 mm
LTM46	4" x 6"	102 x 152 mm
LTM58	5" x 8"	127 x 203 mm
LTM510	5" x 10"	127 x 254 mm
LTM68	6" x 8"	152 x 203 mm
LTM610	6" x 10"	152 x 254 mm
LTM810	8" x 10"	203 x 254 mm
LTM812	8" x 12"	203 x 305 mm
LTM1012	10" x 12"	254 x 305 mm
LTM1014	10" x 14"	254 x 355 mm
LTM1216	12" x 16"	305 x 406 mm
LTM1218	12" x 18"	305 x 457 mm
LTM1418	14" x 18"	355 x 457 mm
LTM1818	18" x 18"	457 x 457 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.

Please Note: Metallised shielding bags can deteriorate with use. Monitoring them for effectiveness is very important. Do not crease the bag as this can break down the integrity of the metallised shield.