

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

3M™ Static Shielding Bag 1900 and 1910

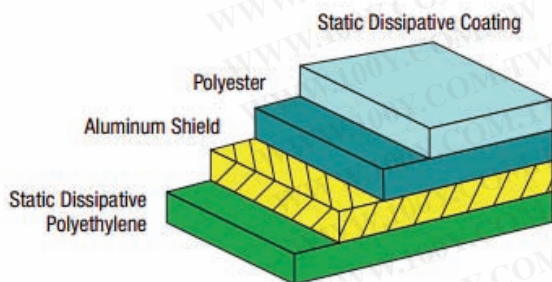
This transparent metal-in static shielding bag is designed to provide a static safe environment for sensitive electronic devices. Bags are printed with an ESD warning symbol and a lot code for traceability. Open top (1900) and ZipTop (1910) styles are available. The bags are heat sealable.

3M Static Shielding Bags 1900 are manufactured from a polyester, metal, polyethylene laminate. The polyester dielectric in concert with the metal layer is intended to provide shielding of Electrostatic Discharge (ESD) and to help minimize the penetration of electric field.

These bags are tested to meet or exceed certain electrical and physical requirements of Static Shielding Bags, ANSI/ESD S541, and to be ANSI/ESD S20.20 program compliant. Bags are RoHS Compliant* and lead-free**.



3M™ Static Shielding Bag
1900 and 1910



Physical	Typical Value	Testing Method
Tensile Strength	5100 PSI, 35 MPa	ASTM D882
Puncture Resistance	12 lbs, 53 N	MIL-STD-3010C Method 2065
Seal Strength	9 lbs, 40 N	ASTM D882
Thickness	2.8 mils, .071 mm +/-15%	MIL-STD-3010C Method 1003
Marking Adhesion	Pass	IPC-TM-650 2.4.1
Transparency	40%	Tobias
Electrical	Typical Value	Testing Method
ESD Shielding	<10 nJ	ANSI/ESD STM11.31
Surface Resistance - Interior	<1x10 ¹¹ ohms	ANSI/ESD STM11.11
Surface Resistance - Exterior	<1x10 ¹¹ ohms	ANSI/ESD STM11.11
Static Decay	< 2 seconds	ETS 406D
Cleanliness	Typical Value	Testing Method
Silicone	Not Detected	FTIR
Heat Sealing Conditions	Typical Value	
Temperature	375°F, 190°C	
Time	0.5 – 3.5 seconds	
Pressure	30 – 70 PSI, 206 – 482 KPa	

This product is intended for commercial use only. This product is not on the Qualified Product Listing under the Defense Standardization Program.

3M™ Static Shielding Bag 1900 and 1910

3M™ Static Shielding Bags, Open Top 1900

Dimensions (W x L in.)	Part No.	Dimensions (W x L in.)	Part No.	Dimensions (W x L in.)	Part No.
3 x 5	19035	7 x 15	190715	12 x 16	1901216
4 x 4	19044	8 x 8	19088	12 x 18	1901218
4 x 6	19046	8 x 10	190810	14 x 18	1901418
5 x 8	19058	8 x 12	190812	15 x 18	1901518
6 x 8	19068	10 x 12	1901012	16 x 24	1901624
6 x 10	190610	10 x 14	1901014	18 x 18	1901818
		11 x 15	1901115	18 x 24	1901824

Custom Sizes Available

3M™ Static Shielding Bags, ZipTop 1910

Dimensions (W x L in.)	Part No.	Dimensions (W x L in.)	Part No.	Dimensions (W x L in.)	Part No.
3 x 5	19135	6 x 10	191610	11 x 15	1911115
4 x 6	19146	8 x 8	191810	12 x 16	1911216
5 x 8	19158	8 x 12	191812	12 x 18	1911218
6 x 8	19168	10 x 12	1911012	18 x 18	1911818

Custom Sizes Available

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* **RoHS 2011/65/EU Compliant** means that the product or part does not contain any of the substances in excess of the maximum concentration values ("MCVs") in EU RoHS Directive 2011/65/EU. The MCVs are by weight in homogeneous materials. This information represents 3M's knowledge and belief, which may be based in whole or in part on information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty section.

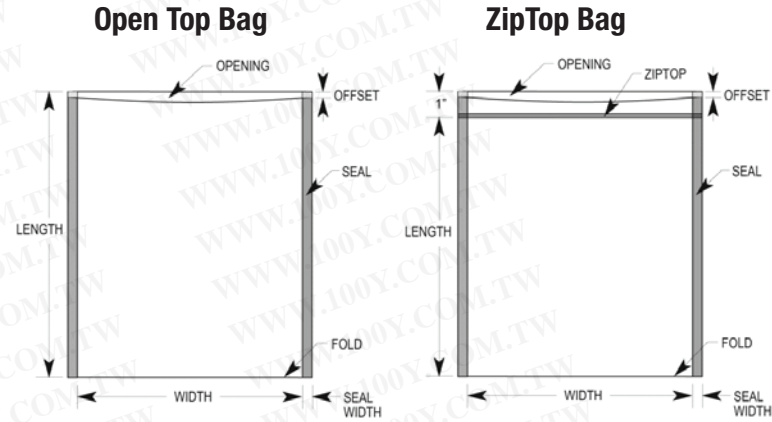
**Lead-free means that the product has less than 2 ppm of lead when tested by ICP-AES, with reference to EPA method 3051A/3052.



Electronic Solutions Division Static Control Products

926 JR Industrial Drive
Sanford, NC 27332-9733
Toll-Free: 866-722-3736
International: 919-718-0000
Email: 3mstaticinfo@mmm.com
www.3Mstatic.com

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98-0799-1128-9 JHA



- Standard sizes for prompt shipment (usually same day).
- Width is measured from inside seam to inside seam.
- Length is measured from the top edge to the bottom fold.
- Opening is in the "width" dimension.
- Custom bag sizes are available.

Tolerance (inches): Width -0, +0.250
Length +/- 0.125 Offset 0 to 0.250
Seal width +/- 0.125

Important Notice

All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M.

Warranty; Limited Remedy; Limited Liability.

This product will be free from defects in material and manufacture for one year from the time of purchase. **3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.

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Static Shielding Bag 1900 / 1910 Series

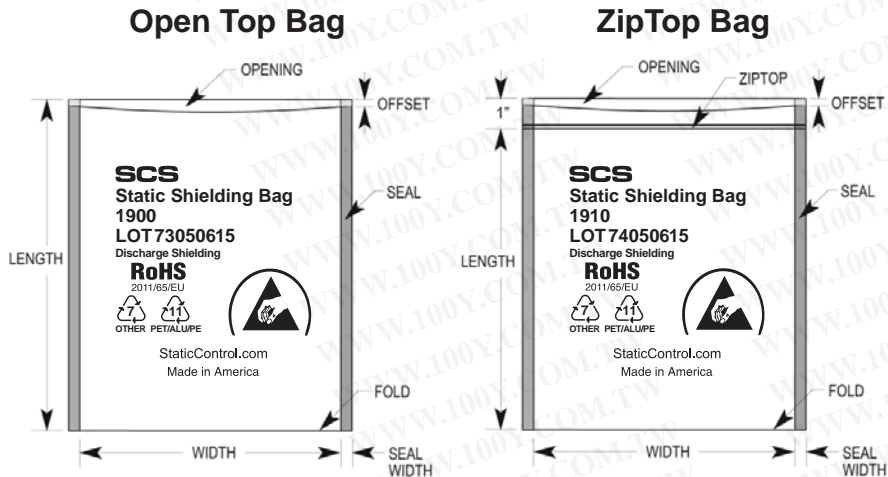


This transparent metal-in static shielding bag is designed to provide static safe packaging for the shipment and/or storage of ESD sensitive items including outside ESD protected areas. Bags are printed with an ESD protective symbol and a lot code for traceability. Open top (1900) and ZipTop (1910) styles are available. The bags are heat sealable.

Meets ANSI/ESD S20.20 Packaging Standard, ANSI/ESD S541, and Static Control Bag ANSI/ESD S11.4 Level 3

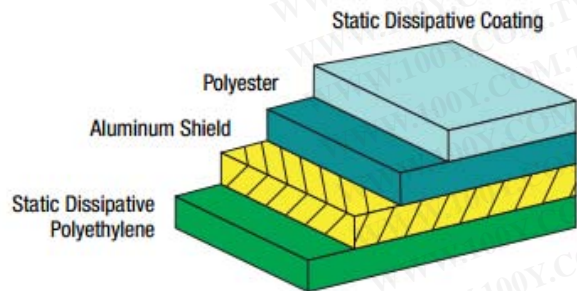
SCS Metal-In Static Shielding Bags 1900/1910 are manufactured from a polyester, metal, polyethylene laminate. The polyester dielectric in concert with the metal layer provides discharge shielding. The exterior being static dissipative allows electrostatic charges to be removed when grounded.

Physical	Typical Value	Testing Method
Tensile Strength	5100 PSI, 35 MPa	ASTM D882
Puncture Resistance	12 lbs, 53 N	MIL-STD-3010C Method 2065
Seal Strength	9 lbs, 40 N	ASTM D882
Thickness	2.8 mils, .071 mm +/-10%	MIL-STD-3010C Method 1003
Marking Adhesion	Pass	IPC-TM-650 2.4.1
Transparency	40%	Tobias
Electrical	Typical Value	Testing Method
Discharge Shielding	<10 nJ	ANSI/ESD STM11.31
Surface Resistance - Interior	1×10^4 to $<1 \times 10^{11}$ ohms	ANSI/ESD STM11.11
Surface Resistance - Exterior	$<1 \times 10^{11}$ ohms	ANSI/ESD STM11.11
Cleanliness	Typical Value	Testing Method
Silicone	Not Detected	FTIR
Heat Sealing Conditions	Typical Value	
Temperature	375°F, 190°C	
Time	0.5 – 3.5 seconds	
Pressure	30 – 70 PSI, 206 – 482 KPa	



Tolerance (inches): Width -0, +0.250
Length +/- 0.125 Offset 0 to 0.250
Seal width +/- 0.125

Note: Standard bag markings shown above and are not to scale. Bag markings are centered regardless of bag size.



RoHS 2, REACH, and Conflict Minerals Statement
None of the RoHS 2 restricted materials or REACH substances of very high concern as of 2014/12/17, or Conflict Minerals are intentionally added in manufacturing this product. Ref: European Union Directive 2011/65/EU and Regulation (EC) No. 1907/2006/CE. See [SCS Warranty, Limitation of Liability and Remedies](#)

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Specifications and procedures subject to change without notice.

1900 / 1910 SERIES METAL-IN STATIC SHIELDING BAG		
926 JR Industrial Drive, Sanford, NC 27332 WEB SITE: StaticControl.com PHONE (919) 718-0000	DRAWING NUMBER 1900 Series	DATE June 2015

