

## 3M™ Static Shielding Bag 1900 and 1910

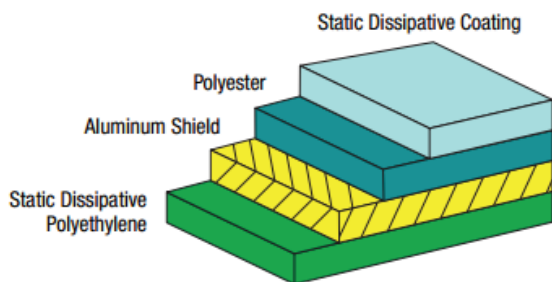
This transparent metal-in static shielding bag is designed to provide a static safe environment for sensitive electronic devices. Bags are printed with an ESD warning symbol and a lot code for traceability. Open top (1900) and ZipTop (1910) styles are available. The bags are heat sealable.

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 <sup>11</sup> ohms	ANSI/ESD STM11.11
Surface Resistance - Exterior	<1x10 <sup>11</sup> 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.

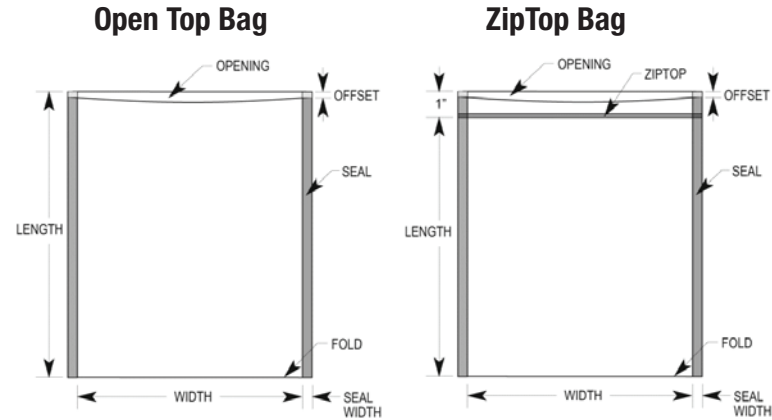
\*\*Lead-free means that the product has less than 2 ppm of lead when tested by ICP-AES, with reference to EPA method 3051A/3052.



#### Electronic Solutions Division Static Control Products

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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

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