

## 3M™ Puncture Resistant Metal-Out Static Shielding Bags 2100R

### Features

- Extra thick polyester plastic to resist punctures and tears.
- Metal layer is positioned near the outer surface for fast charge decay and low charge retention.
- Bags are printed with ESD Warning symbol and lot coded for QC traceability.
- Tested to meet or exceed the electrical and physical requirements of MIL-PRF-81705D Type III, ESD S541, EIA 625, MIL-HDBK-263, MIL-STD-1686, ANSI/ESD S20.20., and charge retention standards.
- Bags are RoHS Compliant\* and lead-free\*\*.



3M™ Static Shielding Bag 2100R

Product No.	Description
2100R	Metal-Out Static Shielding Bags. 100 bags per pack.
	Standard Sizes, in. (cm)
	3 x 5 (7.6 x 12.5)
	4 x 4 (10.2 x 10.2)
	4 x 6 (10.2 x 15.2)
	4 x 26 (10.2 x 66.0)
	4 x 30 (10.2 x 76.2)
	5 x 8 (12.7 x 20.3)
	6 x 8 (15.2 x 20.3)
	6 x 10 (15.2 x 25.4)
	7 x 15 (17.8 x 38.1)
	8 x 8 (20.3 x 20.3)
	8 x 10 (20.3 x 25.4)
	8 x 12 (20.3 x 30.5)
	10 x 14 (25.4 x 35.6)
	10 x 24 (25.4 x 61)
	11 x 15 (27.9 x 38.1)
	12 x 16 (30.5 x 40.6)
	14 x 18 (35.6 x 45.7)
	15 x 18 (38.1 x 45.7)
	16 x 24 (40.6 x 61)
	18 x 18 (45.7 x 45.7)
18 x 24 (45.7 x 61)	
Custom Sizes, in. (cm)	
2 x 3 to 35 x 36 (5.1 x 7.6 to 88.9 x 91.4)	



### 2100R/2110R Properties

Property	Typical Value	Test Method
Thickness	3.2 mil (81 microns)	ASTM D2103
<b>Strength</b>	>20 lbs. (>6250 PSI, 4.3 x 10 <sup>7</sup> N/m <sup>2</sup> )	
Tensile	9000 PSI (6.2 x 10 <sup>7</sup> N/m <sup>2</sup> )	ASTM D882
Puncture	24 lbs. (10.9 kg)	FTMS 101
Seam	Pass	MIL PRF 81705
Optical Density	.35-.45	ASTM D1003
<b>Surface Resistance/ Resistivity</b>		
Interior	<10 <sup>11</sup> ohm	ANSI/ESD S11.11
Exterior	<10 <sup>9</sup> ohm	ANSI/ESD S11.11
Metallized Layer	<10 <sup>2</sup> ohm/sq	Monroe #267
<b>Electrostatic Shielding</b>	<30V <25 nJ	EIA-541 (V-Zap) ANSI/ESD S11.31
<b>Decay Time</b>	<2 sec.	EIA-541
<b>Contact Corrosivity</b>	Pass	FTMS 101C Method 3005
<b>Outgassing</b>		
TML	<1.0%	ASTM E595
CVCM	<0.1%	ASTM E595
<b>Heat Seal Properties</b>		
Temperature	180°F – 250°F (82°C – 121°C)	
Time	0.5 – 5.0 sec.	
Pressure	20 – 60 PSI	
<b>Shelf Life</b> (from date of manufacture)	1 Year	

Product No.	Description
2110R	2100R with Zipper Closure. 100 bags per pack.
	Standard Sizes, in. (cm)
	3 x 5 (7.6 x 12.5)
	4 x 4 (10.2 x 10.2)
	4 x 6 (10.2 x 15.2)
	5 x 8 (12.7 x 20.3)
	6 x 8 (15.2 x 20.3)
	6 x 10 (15.2 x 25.4)
	8 x 10 (20.3 x 25.4)
	8 x 12 (20.3 x 30.5)
	10 x 12 (25.4 x 30.5)
	10 x 14 (25.4 x 35.6)
	11 x 15 (27.9 x 38.1)
	Custom Size, in. (cm)
	3 x 5 to 20 x 30 (7.6 x 12.7 to 50.8 x 76.2)

