

### 3M™ 1900/1910 Metal-In Static Shielding Bag Properties

Property	Test Method	Typical Value
Thickness	ASTM D2103	2.9 mil (74 microns)
Strength		
Tensile	ASTM D882	15 lbs./in. width >5200 PSI MD/TD
Puncture	FTMS 101, Method 2065	>12 lbs. (5,4 kg)
Seal	MIL PRF 81705	Pass
Optical Density	ASTM D1003	.35 -.45
Surface Resistance/Resistivity		
Interior	ESD S11.11	<10 <sup>11</sup> ohms
Exterior	ESD S11.11	<10 <sup>11</sup> ohms
Metallized Layer	Monroe #267	<10 <sup>2</sup> ohms/sq.
Electrostatic Shielding	EIA-541 (V-Zap) ANSI/ESD S11.31	<30V <25nJ
Electrostatic Decay		
Interior	EIA-541	<2 sec.
Contact Corrosivity	FTMS 101C, Method 3005	Pass
Outgassing		
TML	ASTM E595	<1.0%
CVCM	ASTM E595	<0.1%
Heat Seal Properties		
Temperature		180°F - 250°F
Time		(82°C - 121°C)
Pressure		0.5 - 5.0 Sec. 20 - 60 PSI (1.4 x 10 <sup>5</sup> - 4.1 x 10 <sup>5</sup> N/m <sup>2</sup> )
Shelf Life (from date of manufacture)		1 - Year