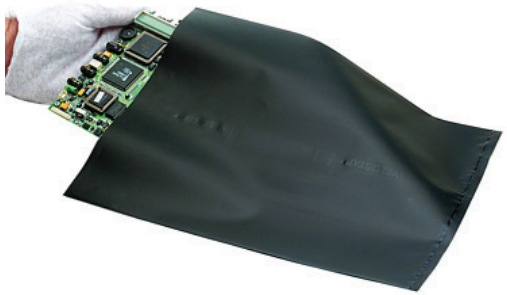
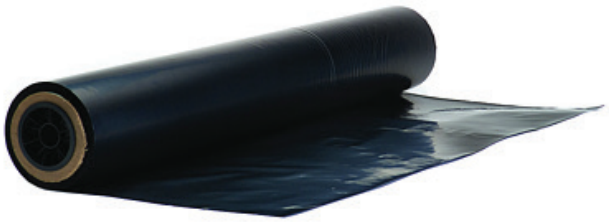
3M™ Conductive Film Products

3M™ Conductive Bag 2004
Conductive Bags 2004 are made of opaque, volume-conductive carbon impregnated polyolefin, and are heat-sealable. The bags are designed to dissipate a charge and should not become electrically charged through tribo electrification.



3M™ Conductive Film 1700
Conductive Film 1700 is opaque, volume-conductive, carbon-impregnated polyolefin, and is commonly used for material handling, shipping and storage in the electronic or chemical industries.



3M™ Conductive Drum Liner 2014
Conductive Drum Liners 2014 are designed to not hold a static charge when properly grounded, and are commonly used in the electronic or chemical industry as a waste container liner.



3M™ Conductive Tubing 1724
Conductive Tubing 1724 is made of opaque, volume conductive carbon-impregnated polyolefin, and is used to make bags and sleeves for specialized packaging or storage requirements. The tubing is heat-sealable and can be used on automated packaging lines.



3M™ Conductive Film Products

Part Numbers and Sizes	Typical Value
3M™ Conductive Bags 2004	
Type	Conductive
Wall Thickness	4.0 mil (102 microns)
Standard Sizes	5 x 8 in. (12.7 x 20.3 cm) 6 x 10 in. (15.2 x 25.4 cm) 8 x 12 in. (20.3 x 30.5 cm) 10 x 12 in. (25.4 x 30.5 cm) 12 x 16 in. (30.5 x 40.6 cm) 15 x 18 in. (38.1 x 45.7 cm)
3M™ Conductive Drum Liners 2014	
Type	Conductive
Wall Thickness	4.0 mil (102 microns)
Standard Sizes 5 gallon 20 gallon 30 gallon *55 gallon * Available 50 per box	 18 x 24 in. (45.7 x 61.0 cm) 24 x 36 in. (61.0 x 91.4 cm) 30 x 36 in. (76.2 x 91.4 cm) 38 x 58 in. (96.5 x 147.3 cm)
3M™ Conductive Film, Short Rolls 1704, 1706, 1708	
Type	Conductive
Film Thickness for 1704 Film Thickness for 1706 Film Thickness for 1708	4.0 mil (102 microns) 6.0 mil (152.4 microns) 8.0 mil (203.2 microns)
Standard Sizes Roll Length 150 ft. (45.7 m)	 36 in. (91.4 cm) 54 in. (137.2 cm) 72 in. (182.9 cm)
3M™ Conductive Film, Long Rolls, 1764	
Type	Conductive
Film Thickness	4.0 mil (102 microns)
Standard Size Roll Length 1,500 ft. (457.2 m)	 36 in. (91.4 cm)

Part Numbers and Sizes	Typical Value
3M™ Conductive Tubing 1724	
Type	Lay Flat Conductive Tubing
Film Thickness	4.0 mil (102 microns)
Standard Sizes Roll Length 500 ft. (152.4)	 5 in. W (12.7 cm) 12 in. W (30.5 cm)

Specifications

Property	Test Method	Typical Value
Thickness	ASTM D2103	4 mil (102 microns)
Strength Breaking Factor Puncture	 ASTM D882 Fed Std 101	 8 lbs./in. 7 lbs.
Heat Seal Parameters Temperature Time Pressure		 250°F 3.0-5.0 sec. 20-60 PSI
Vicat Softening Temperature	ASTM D1525	83°C
Electrical Properties Volume Resistivity Static Decay	 ASTM D991 EIA-541	 <500 ohm-cm <2 sec.
Chemical Susceptibility Dilute Acids and Alkalies Alcohols (Isopropanol) Hydrocarbons (Acetone) Ketones (Acetone) Gasoline Aromatic Hydrocarbons (Toluene)	 ASTM D543	 Resistant Resistant Moderate attack Slight attack Moderate attack Severe attack

*Physical characteristics will change with other thicknesses.

3M™ Conductive Film Products

3M is a trademark of 3M Company.

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.**

Electronics Materials 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

Printed in USA.
© 3M 2014. All rights reserved.
78-9102-1967-0 JHA