3MTM Dri-Shield Moisture Barrier Bag 2000

Moisture Barrier Bag ~ Aluminized

3M's Dri-Shield 2000 Moisture Barrier Bag is designed for dry packaging of electronic devices and uses the first structure approved under MIL-PRF-81705 Type I. Dri-Shield 2000 bags are made from multiple layers of metallized polyester and dissipative polyethylene. Bags protect SMD's from moisture and static damage. Flexible structure is easy to vacuum seal. Coded for QC traceability.

Standards

Meets electrical and physical requirements of MIL-PRF-81705 Type 1, EIA 583, EIA 541, EIA 625, and EOS/ESD Standards.

Specifications

Physical Properties: Typical Values

MVTR(g/100 sq.in./24 hrs) <.02 ASTM F 1249 Puncture Resistance > 20 lbs FTMS 101 MTH 2065

3.6 mils Thickness 3M 008 ASTM D882 Tensile Strength 40 lb Seam Strength Pass MIL-PRF-81705

Heat Sealing Conditions:

300°F - 400°F Temperature 0.6 - 4.5 seconds Time 30 - 70 PSI Pressure

Electrical Properties:

ASTM D257 <10¹² ohms/square <10¹² ohms/square ANSI/ESD STM11.11 <10¹¹ ohms Surface Resistivity / Resistance or <10¹¹ ohms Exterior or

Metal 100 ohms Static Shielding < 20 volts FIA 541

EOS/ESD S11.31 Static Shielding < 10 nJ **EMI** Attenuation 45 dB MIL-PRF-81705 Static Decay < 0.03 seconds FTMS 101 MTH 4046 FTMS 101 MTH 3005 Non-Corrosive Pass

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Outgassing Pass ASTM E595

Sizes on Page 2

3M™ Moisture Barrier Bag with 3M™ Humidity Indicator Card and



3M™ Dri-Shield Moisture Barrier Bag 2000





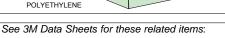
Material Structure

Multiple layers of metallized polyester provide puncture resistance and moisture barrier for this economical dry package. This highly reliable material meets or exceeds MVTR and EMI/RFI/Static Shielding requirements of MIL-PRF-81705, STATIC DISSIPATIVE POLYESTER

Type I and EIA 583, Type I for ALUMINUM SHIELD

static safe, POLYESTER moisture barrier packaging. ALUMINUM SHIELD

STATIC DISSIPATIVE



Humidity Indicator Cards (HIC's) Desiccant

Vacuum Sealers

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Dri-Shield 2000 Moisture Barrier Bag ALUMINIZED

PRODUCT
MOISTURE BARRIER BAG, ALUMINIZED

ITEM NUMBER 700(W")(L") DATASHEET 1102-A

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W"x L" P/N	W"x L" P/N	W"x L" P/N
3 x 5 70035	8 x 10 700810	14 x 30 7001430
4 x 6 70046	8 x 12 700812	15 x 18 7001518
4 x 24 700424	10 x 12 7001012	16 x 18 7001618
5 x 30 700530	10 x 20 7001020	17 x 19 7001719
6 x 8 70068	10 x 24 7001024	18 x 18 7001818
6 x 10 700610	10 x 30 7001030	18 x 24 7001824
6 x 24 700624	12 x 16 7001216	
6 v 30 700630	12 x 18 7001218	

OPENING SEAL WIDTH SEAM WIDTH

3MTM Dri-Shield Moisture Barrier Bag 2000

How Moisture Barrier Bags Work

Moisture barrier bags work by enclosing a device with a metal or plastic shield(s) that has a high resistance to moisture vapor permeation. Dry devices are placed inside this shield, and the moisture-laden air is evacuated. Desiccant filled pouches scavenge the remaining moisture from the bag's interior. Moisture that penetrates the bag is also entrapped by the desiccant. Humidity indicating cards report the effectiveness of the package upon device use. A label on the bag indicates the amount of exposure time devices are allowed prior to use, and the drying (re-baking) time and temperature if the exposure time is exceeded.

As the barrier property improves, the Moisture Vapor Transmission Rate (MVTR) decreases. Bags with lower MVTR provide better barrier. Aluminum foil provides the best MVTR of about 0.0003. Multiple layers of Aluminized Polyester can provide 0.02 to about 0.005.

Puncture Resistance is an important feature for barrier bags. Sharp tray edges may tear through bags with low puncture resistance.

• All standard sizes in-stock/same day shipment.

- Width is measured from inside seam to inside seam.
- \bullet Length is measured from the top edge to the bottom fold.
- Opening is in the "width" dimension.
- Custom bag sizes, custom printing, and custom hot stamping are available.
- Most sizes are packed 100 per case.
 Small sizes are packed 1000 or 500 per case.

Dri-Shield 2000 Static Shielding Bag METAL-IN

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PRODUCT

MOISTURE BARRIER BAG, ALUMINIZED

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