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 Thickness 3.6 mils 3M 008

Tensile Strength 40 lb ASTM D882 Seam Strength Pass MIL-PRF-81705

Heat Sealing Conditions:

 Temperature
 300°F - 400°F

 Time
 0.6 - 4.5 seconds

 Pressure
 30 - 70 PSI

Electrical Properties:

Surface Resistivity / Resistance Interior ASTM D257 or ANSI/ESD STM11.11 ohms can be sufficiently on the state of the surface of the surface

Metal 100 ohms

Static Shielding < 20 volts EIA 541

Static Shielding< 10 nJ</th>EOS/ESD S11.31EMI Attenuation45 dBMIL-PRF-81705Static Decay< 0.03 seconds</td>FTMS 101 MTH 4046Non-CorrosivePassFTMS 101 MTH 3005

Outgassing Pass ASTM E595



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

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 require-

ments of MIL-PRF-81705, STATIC DISSIPATIVE POLYESTER Type I and EIA

583, Type I for ALUMINUM SHIELD static safe, POLYESTER POLYESTER

packaging. ALUMINUM SHIELD

STATIC DISSIPATIVE POLYETHYLENE

See 3M Data Sheets for these related items:

Humidity Indicator Cards (HIC's)

Desiccant

Vacuum Sealers

PRODUCT DATA SHEET

Dri-Shield 2000 Moisture Barrier Bag ALUMINIZED

MOISTURE BARRIER BAG, ALUMINIZED

PRODUCT

ITEM NUMBER 700(W")(L") <u>DATASHEET</u> 1102-A 3M Electronic Solutions Division 6801 River Place Blvd. Austin. TX 78726-9000

Austin, 1X 78726-9000 US and Canada: **866-722-3736**

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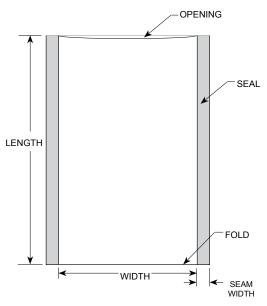
Moisture Barrier Bag ~ Aluminized

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 x 30	700630	12 x 18 7001218	

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

- 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, custom printing, and custom hot stamping are available.
- Most sizes are packed 100 per case. Small sizes are packed 1000 or 500 per case.

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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.

Dri-Shield 2000 Static Shielding Bag METAL-IN

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PRODUCT MOISTURE BARRIER BAG, ALUMINIZED

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