# 3M<sup>™</sup> Moisture Barrier Bag Dri-Shield 2000

## Moisture Barrier Bag ~ Aluminized

See 3M Data Sheets for these related items:

Humidity Indicator Cards (HIC's)

Desiccant

The 3M Dri-Shield 2000 Moisture Barrier Bag is designed for dry packaging of electronic devices. Dri-Shield 2000 bags are made from multiple layers of metallized polyester and dissipative polyethylene. Bags help protect SMD's from moisture and static damage. Flexible structure is easy to vacuum seal. Coded for QC traceability. These bags are tested to meet or exceed certain electrical and physical requirements of ANSI/ESD S541, EIA 625, and to be ANSI/ESD S20.20 program compliant.

# **Specifications**

<i>Physical Properties:</i> MVTR Puncture Resistance Thickness Tensile Strength Seal Strength Heat Sealing Conditions:	Typical Values <.02 g/100 sq.in./24 hrs > 20 lbs 3.6 mils** 8700 PSI >12 lbs	Test Method* ASTM F 1249 MIL-STD-3010 2065 MIL-STD-3010 1003 ASTM D882 ASTM D882
Temperature Time Pressure <b>Electrical Properties:</b>	300 <sup>0</sup> F - 400 <sup>0</sup> F 0.6 - 4.5 seconds 30 - 70 PSI	

#### Elec

Surface Resistivity / Resistance	ASTM D257	or ANSI/ESD STM11.11
Interior	<10 <sup>12</sup> ohms/square	or <10 <sup>11</sup> ohms
Exterior	<10 <sup>12</sup> ohms/square	or <10 <sup>11</sup> ohms
Metal	100 ohms	
Static Shielding	< 20 volts	EIA 541
Static Shielding	< 10 nJ	ANSI/ESD STM11.31
EMI Attenuation	45 dB	
Static Decay	< 2 seconds	MIL-STD-3010 4046
Silicone or Amine Content	Not detected	FTIR
	** tolerance +/-15%	

#### Moisture Barrier Bag with Humidity Indicator Card and Desiccant Material Structure STATIC DISSIPATIVE POLYESTER Multiple layers of metallized polyester provide puncture ALUMINUM SHIELD resistance and moisture barrier for this economical dry package. POLYESTER This highly reliable material ALUMINUM SHIELD meets or exceeds commercial MVTR and EMI/REI/Static Shielding requirements for static STATIC DISSIPATIVE POLYETHYLENE safe, moisture barrier packaging.

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#### Vacuum Sealers \*This product is not on the Qualified Product Listing under the Defense Standardization Program. Ρ R 0 D UCT D ΑΤ Α S н EET Dri-Shield 2000 Moisture Barrier Bag ALUMINIZED 3M is a trademark of 3M Company. 3M Electronic Solutions Division All other trademarks herein are the property 6801 River Place Blvd of their respective owners. Austin, TX 78726-9000 ITEM NUMBER PRODUCT DATASHEET US and Canada: 866-722-3736 MOISTURE BARRIER BAG, ALUMINIZED 700(W")(L") Fax: 866-722-3735 1102-A Intl: 919-718-0000: Fax: 919-774-8174 98-0799-1075-2 email: 3Mstaticinfo@mmm.com; www.3Mstatic.com © 3M 2012. All rights reserved

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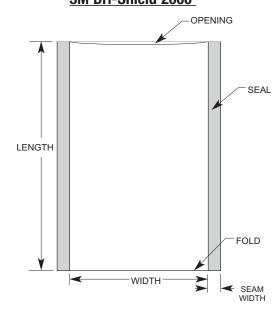


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# Moisture Barrier Bag ~ Aluminized

W"x L"	P/N	W"x L" P	?/N	W"x L"	P/N
3 x 5	70035	8 x 10 70	00810	14 x 30	7001430
4 x 6	70046	8 x 12 70	00812	15 x 18	7001518
4 x 24	700424	10 x 12 70	01012	16 x 18	7001618
5 x 30	700530	10 x 20 70	01020	17 x 19	7001719
6 x 8	70068	10 x 24 70	01024	18 x 18	7001818
6 x 10	700610	10 x 30 70	01030	18 x 24	7001824
6 x 24	700624	12 x 16 70	01216		
6 x 30	700630	12 x 18 70	001218		

### 3M Dri-Shield 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.

# Small sizes are packed 1000 or 500 per case.

# Dri-Shield 2000 Moisture Barrier Bag ALUMINIZED

PRODUCT MOISTURE BARRIER BAG, ALUMINIZED

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

• Opening is in the "width" dimension.

Most sizes are packed 100 per case.

stamping are available.

• Width is measured from inside seam to inside seam.

• Custom bag sizes, custom printing, and custom hot

• Length is measured from the top edge to the bottom fold.

ITEM NUMBER	DATASHEET
700(W")(L")	1102-A
	98-0799-1075-2

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