

3M™ Moisture Barrier Bag Dri-Shield 2700

Moisture Barrier Bag ~ Aluminized

The 3M Dri-Shield 2700 Moisture Barrier Bag is designed for dry packaging of electronic devices. Made from multiple layers of metallized polyester and heavy gauge dissipative polyethylene, Dri-Shield 2700 bags provide superior puncture resistance and drop test performance. 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

Physical Properties:

MVTR	Typical Values	Test Method*
Puncture Resistance	<.005 g/100 sq.in./24 hrs	ASTM F 1249
Thickness	30 lbs	MIL-STD-3010 2065
Tensile Strength	7 mils**	MIL-STD-3010 1003
Seam Strength	6800 PSI	ASTM D882
Heat Sealing Conditions:	>15 lbs	ASTM D882
Temperature	300°F - 400°F	
Time	0.6 - 4.5 seconds	
Pressure	30 - 70 PSI	

Electrical Properties:

Surface Resistivity / Resistance	ASTM D257	or ANSI/ESD STM11.11
Interior	<10 ¹² ohms/square	or <10 ¹¹ ohms
Exterior	<10 ¹² ohms/square	or <10 ¹¹ 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%

See 3M Data Sheets for these related items:

Humidity Indicator Cards (HIC's)

Desiccant

Vacuum Sealers

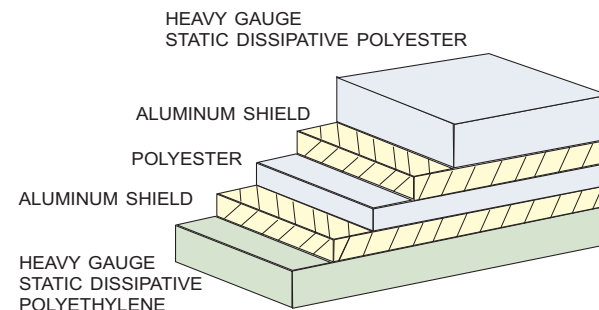


Moisture Barrier Bag with Humidity Indicator Card and Desiccant



Material Structure

Static dissipative polyethylene and metallized polyester create an exceptional dry package with superior puncture performance. This premium material meets or exceeds commercial MVTR and EMI/RFI/Static Shielding requirements for static safe, moisture barrier packaging.



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*This product is not on the Qualified Product Listing under the Defense Standardization Program.

P R O D U C T D A T A S H E E T

Dri-Shield 2700 Moisture Barrier Bag ALUMINIZED

PRODUCT

MOISTURE BARRIER BAG, ALUMINIZED

ITEM NUMBER

D27(W")(L")

DATASHEET

1103-A

98-0799-1073-7

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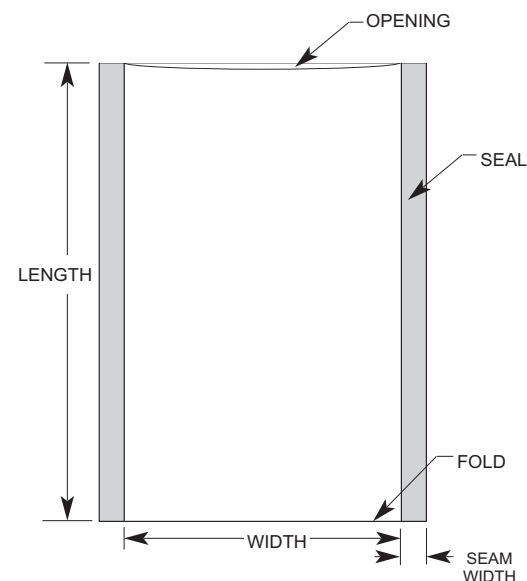
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Moisture Barrier Bag ~ Aluminized

W"x L" P/N	W"x L" P/N	W"x L" P/N
4 x 6 D2746	10 x 30 D271030	15 x 18 D271518
10 x 12 D271012	10.5 x 18 D2710.518	16 x 18 D271618
10 x 20 D271020	12 x 16 D271216	

- 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.

3M Dri-Shield 2700



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.

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