

3M™ Dri-Shield Moisture Barrier Bag 3400

Sizes on Page 2

Moisture Barrier Bag ~ Foil

3M's Dri-Shield Moisture Barrier Bag 3400 is designed for dry packaging of electronic devices. Dri-Shield 3400 bags are made from a high barrier foil structure. Bags protect SMD's from moisture and static damage. Flexible structure is easy to vacuum seal. Lot coded for QC traceability.

Standards

Meets electrical and physical requirements of IPC/JEDEC J-STD-033, MIL-PRF-81705 Type 1, EIA 583, EIA 541, EIA 625, and EOS/ESD Standards.

Specifications

Physical Properties:

MVTR(g/100 sq.in./24 hrs)

Typical Values

<.0003

Puncture Resistance

>20 lbs

Thickness

4.0 mils

Tensile Strength

8500 PSI MD

9500 PSI TD

Elongation

130 % MD

85 % TD

Seam Strength

Pass

Heat Sealing Conditions:

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

<10¹² ohms/square

or <10¹¹ ohms

Exterior

<10¹² ohms/square

or <10¹¹ ohms

Metal

100 ohms

Static Shielding

< 30 volts

EIA 541

Static Shielding

< 20 nJ

EOS/ESD S11.31

EMI Attenuation

45 dB

MIL-PRF-81705



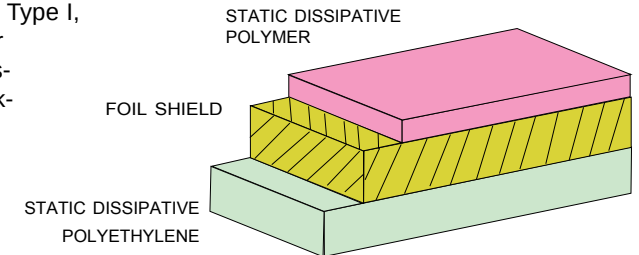
Dri-Shield 3400

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



Material Structure

4 mils of static dissipative polymer, aluminum foil, and static dissipative polyethylene provide a very low MVTR. This foil barrier material meets or exceeds the MVTR and EMI/RFI/Static Shielding requirements of IPC/JEDEC J-STD-033 MIL-PRF-81705 Type I, and EIA 583, for static safe, moisture barrier packaging.



See 3M Data Sheets for these related items:

Humidity Indicator Cards (HIC's)

Desiccant

3M™ Label 113

Vacuum Sealers

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

Dri-Shield 3400 Moisture Barrier Bag FOIL

PRODUCT

MOISTURE BARRIER BAG, FOIL

ITEM NUMBER

D34(W")(L")

DATASHEET

1161-B

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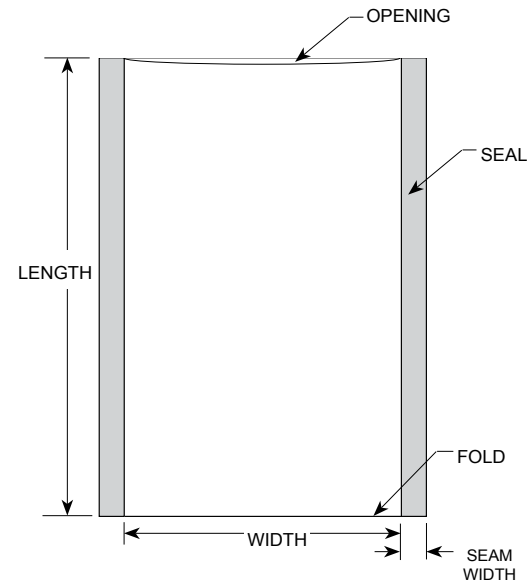
3M™ Dri-Shield Moisture Barrier Bag 3400

Moisture Barrier Bag ~ Foil

W"x L" P/N
Please Inquire

- 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 Foil 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.

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

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