3M™ Dri-Shield Moisture Barrier Bag 3200

**Moisture Barrier Bag Metal-Out ~ Foil**

3M's Dri-Shield 3200 Moisture Barrier Bag is uniquely designed to meet the dry packaging requirements of IPC/JEDEC J-STD-033, and to provide charge retention of less than 50 volts. This combination of technology helps prevent static damage to transient-sensitive devices, and provides year long moisture protection. Dri-Shield 3200 bags are made from a high barrier foil structure to 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, ANSI/ESD S541, EIA 625, and EOS/ESD Standards.

**Specifications**

**Physical Properties:**
- Typical Values:
  - MVTR(g/100 sq.in./24 hrs) <0.002
  - Puncture Resistance 20 lbs
  - Thickness 4.0 mils
  - Tensile Strength 8500 PSI MD
  - Elongation 130 % MD
  - Seam Strength Pass
  - Heat Sealing Conditions:
    - Temperature 300°F - 400°F
    - Time 0.6 - 4.5 seconds
    - Pressure 30 - 70 PSI

- ASTM F 1249
- FTMS 101 MTH 2065
- 3M 008
- ASTM D-882
- ASTM D-882
- ASTM D-882
- MIL-PRF-81705

**Electrical Properties:**
- Surface Resistivity / Resistance ASTM D257
  - Interior $\leq 10^{12}$ ohms/square
  - Exterior $\leq 10^{6}$ ohms/square
  - Metal 100 ohms
  - Static Shielding $\leq 30$ volts
  - Static Shielding $\leq 20$ nJ
  - EMI Attenuation 45 dB

- or ANSI/ESD STM11.11
- or $\leq 10^{11}$ ohms
- or $\leq 10^{9}$ ohms
- EIA 541
- EOS/ESD S11.31
- MIL-PRF-81705

**Material Structure**

The Dri-Shield 3200 features a proprietary top coating to provide low charge retention. 4 mils of polymer and aluminum foil provide a 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:

- 3M™ Humidity Indicator Cards (HiC's)
- 3M™ Desiccant
- 3M™ Label 113
- 3M™ Vacuum Sealers

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Dri-Shield 3200 Metal-out Moisture Barrier Bag - FOIL

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Moisture Barrier Bag ~ Foil

W" x L"  P/N  
Please Inquire

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.

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.

PRODUCT DATASHEET

Dri-Shield 3200 Metal-out Moisture Barrier Bag - FOIL

PRODUCT  ITEM NUMBER  DATASHEET
MOISTURE BARRIER BAG, METAL-OUT, FOIL  D32(W")(L")  1461-B

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