# Inventory Accuracy, Visibility and Loss Prevention

Elevating Brands and Accelerating Performance Throughout the Global Retail Supply Chain

## Avery Dennison® AD-451m5 RFID Label

Design and Development ➡  Manufacturing ➡  Logistics ➡  Retail ➡

## Accelerate Performance – Inventory Accuracy, Visibility and Loss Prevention

**Improve Inventory Accuracy, Visibility and Loss Prevention through integrated solutions from manufacturing source to consumer that can help increase speed, accuracy, visibility, productivity and margins.**

### RFID Labeling for Metallic or Liquid-Filled Items

Retailers are extending the use of RFID for item-level inventory accuracy to non-apparel products containing metal and liquid. At just 1.75" x 0.75" (44.4m x19mm), the Avery Dennison AD-451m5 was designed to provide an economical solution that addresses the special needs of these applications while ensuring ease of printing and encoding.

This RFID inlay offers a cost-effective solution for retail item-level tagging of:

- Housewares
- Fragrances
- Cosmetics
- Lotions
- Other items that have metallic or liquid properties

### Other Applications

Also perfect for inventory accuracy and IT asset management applications where a small form factor and low profile are required.



### Maintain Aesthetic Appearance of Tagged Product

With its low profile design, AD-451m5 increases visual appeal without interfering with product appearance.

### Performance

- Avery Dennison SmartFace™- Avery Dennison SmartFace -- provides ANSI/ISO high grade bar code quality when printed with standard RFID thermal printers.

- Read Range- Average read range of 3' (1 meter) on select metallic items. Actual read ranges will vary depending on the unique characteristics of the product, stack density, environment and reader used.

### Elevating Brands. Accelerating Performance.

Experience this and many other supply chain solutions at our worldwide Customer Design and Innovation Centers. For more information on Avery Dennison RFID Solutions or to schedule a tour of our Customer Design and Innovation Centers, please call 800.543.6650, prompt 5, or e-mail rbis.solutions@averydennison.com.

Visit our website at www.rbis.averydennison.com.

AVERY DENNISON | Retail Branding and Information Solutions

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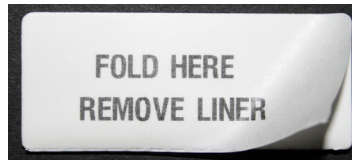| AD-451m5 Technical Specifications | |
|---|---|
| RFID Chipset | Impinj Monza® 5 |
| RF Protocol | EPCglobal Class 1 Gen 2, ISO/IEC 18000-6C |
| EPC Memory | 128 bits |
| TID/UID | 96 bits (48 bits serialized, factory programmed and locked) |
| Operating Frequency | Available in FCC and European frequency bands |
| Minimum Label Application Temperature | 25°F (-4°C) |
| Label Adhesive | Fasson S-490 acrylic |
| Finished Label Dimensions | 1.75 x 0.75 inches (44.4mm x 19mm) |
| Finished Label Profile (thickness) | 0.052 inches (1.3mm) |
| Label Material | Integrity TT, thermal transfer printable substrate |
| Roll Size | Up to 15.25" (387.35mm) max. OD.  For optional roll sizes, contact your Avery Dennison representative. |
| Label Pitch | 2.75" (69.85mm) with black sense mark |

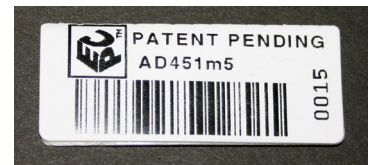## How to Apply the AD-451m5 Label



Remove label from liner



Fold label in half



Remove liner from back of label



Affix label to item

The information contained herein is believed to be reliable but Avery Dennison makes no representations concerning the accuracy or correctness of the data. This product, like any other should be tested by the customer/user thoroughly under end user conditions to ensure the product meets the particular requirements. Independent results may vary.

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