



## AD-224 RFID Inlays

- Offers a scalable 96 to 240 bit EPC memory to accommodate different length EPC codes - additional 512 bits user memory available
- Ideal for life cycle verification applications such as e-pedigree and brand authentication
- Increased read ranges and higher read rates across a wide variety of applications
- Available in high yield/capacity rolls which integrate seamlessly into high-volume converting processes

EPCglobal 

### RF Features

Optimized frequency range	Global (860-960MHz)
Mode of operation	Passive (battery free)

### Protocol, Memory and Custom Commands

Protocol	ISO/IEC 18000-6C EPCglobal C1G2
EPC memory allocation	240 bit EPC number (additional 512 bit user memory option)
Custom Commands	EAS custom command Read Protect Custom Command Calibrate Custom Command

### Inlay Roll Format/Finishing

Un-wind direction



Core size with adaptor insert	6 in [152 mm]
Maximum roll outer diameter (not to exceed)	13 in [330 mm]

### Environmental Specifications

Operating temperature	-40°F to +149°F -40°C to +65°C
Recommended storage temperature and humidity	72°F [22.2°C] at 50%RH
RoHS	Designed to comply with EU Directive 2002/95/EC

### Dry Inlay Specifications

Part Number 600169

Antenna dimensions (CD x MD)	3.741 in x .292 in [95.03 mm] x [7.41 mm]
Standard pitch	0.625 in [15.88 mm]
Standard web width	4.75 in [120.65 mm]
Inlay substrate material	Heat-treated PET
Thickness over chip (typical)	11.02 mils [280 microns]
Shelf life	2 years when stored at 72°F at 50%RH
Quality assurance	100% read tested with out-of-tolerance inlay marked
Avg units per roll	20,000

### Pressure-Sensitive Inlay Specifications

Part Number 600170

Die-cut dimensions (CD x MD)	3.885 in x .44 in [98.68 mm] x [11.18 mm]
Standard pitch	0.625 in [15.88 mm]
Standard web width	3.741 in [95.03 mm]
Inlay-to-liner adhesive	S490 (Fasson®)
Liner material	40# SCK (Fasson®)
Total thickness over chip (typical)	13.52 mils [343 microns]
Shelf life	1 year when stored at 72°F at 50% RH
Quality assurance	100% edit and replace
Avg units per roll	20,000

**CARE AND HANDLING** RFID inlays are sensitive to ESD. Observe standard practices to keep environmental static charge to a minimum.

**APPLICATIONS** This product should be tested by the customer/user thoroughly under end use conditions to ensure the product meets the particular requirements. Avery Dennison does not represent that this product is fit for any particular purpose or use.

**WARRANTY** Please refer to Avery Dennison RFID standard terms and conditions. The information contained herein is believed to be reliable but Avery Dennison makes no representation concerning the accuracy or correctness of the data.

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\* Part Number 600173

For the most recent information on Avery Dennison products, visit [www.rfid.averydennison.com](http://www.rfid.averydennison.com).

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