

Avery Dennison AD-810 RFID Inlays



This orientation-insensitive tag is intended for high density, unit-level tagging. The AD-810 allows tags in proximity to each other to improve in performance, making it ideal for multiple plastic bottles packed tightly together.

EPC Protocol

UHF Class 1

Memory

96 Bit Read/Write

Frequency

902-928 MHz

AD-810 Dry Inlay

RF Performance

SKU compatibility UHF favorable
Operating frequency 902-928 MHz

Memory and Processing

Manufacturer/chip name ST Micro/A4
Protocol/class EPC UHF Class 1
EPC Memory allocation 96 Bit Read/Write

Inlay Specifications

Antenna base material Copper
Inlay substrate material and thickness Heat-treated PET, 2 mil
Total thickness over chip 11 mils [279 microns]

Roll Format/Finishing

Wind direction Out
Core size (inches [mm]) 3 [76.2]
Maximum roll outer diameter (inches [mm]) 16 [406.4]
Lot mark/Date mark On core

Packaging

Roll in metalized mylar bag with desiccant, packed with corrugated board filler and core plug.

Environment

Operating temperature -13°F to +158°F
[-25°C to +70°C]
Storage temperature (recommended) 72°F [22°C] at 50% RH
Shelf life 2 year(s)
Humidity (recommended) 40% to 80% RH

Minimum Bend Radius

Roller diameter (inches [mm]) 1.75 [44.5]
PLI (lbs. per linear inch) 2
Wrap 180°

Quality Assurance

Read tested 100%
Quality audit 100% Tested with out-of-tolerance inlay marked

Compliance

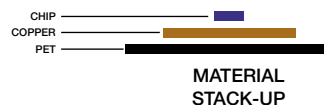
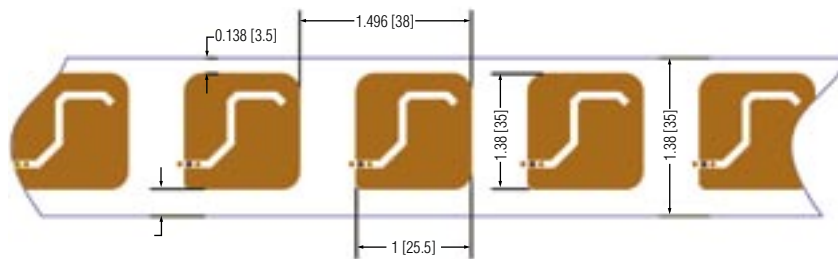
Countries of operation US compatible
EPC UHF Class 1

#600046

UNWIND DIRECTION →

Diagram dimensions (inches [mm])

Inlay On Web Tolerance +/- .0312 [.792]



AD-810 Pressure Sensitive Inlay

RF Performance

SKU compatibility UHF favorable
Operating frequency 902-928 MHz

Memory and Processing

Manufacturer/chip name ST Micro/A4
Protocol/class EPC UHF Class 1
EPC Memory allocation 96 Bit Read/Write

Inlay Specifications

Inlay/liner adhesive E828
Liner material 40# SCK
Antenna base material Copper
Inlay substrate material and thickness Heat-treated PET, 2 mil
Total thickness over chip 14 mils [356 microns]

Roll Format/Finishing

Wind direction Out
Core size (inches [mm]) 3 [76.2]
Maximum roll outer diameter (inches [mm]) 16 [406.4]
Lot mark/Date mark On core

Packaging

Roll in metalized mylar bag with desiccant, packed with corrugated board filler and core plug.

Environment

Operating temperature -13°F to +158°F
[-25°C to +70°C]
Application temperature (minimum) -20°F [-29°C]
Storage temperature (recommended) 72°F [22°C] at 50% RH
Shelf life 1 year(s)
Humidity (recommended) 30% to 80% RH

Minimum Bend Radius

Roller diameter (inches [mm]) 1.75 [44.5]
PLI (lbs. per linear inch) 2
Wrap 180°

Quality Assurance

Read tested 100%
Quality audit 100% Tested with out-of-tolerance inlay marked

Compliance

Countries of operation US compatible
EPC UHF Class 1

#600049

UNWIND DIRECTION →

Diagram dimensions (inches [mm])

Inlay On Web Tolerance +/- .0312 [.792]

