



ECO Mini

UNIVERSAL RFID TAG

The Universal Eco-Mini RFID Tag is an onsite printable RFID product that is ideal for on-metal applications where repeated usage isn't necessary, like item-level inventory tracking in retail applications.

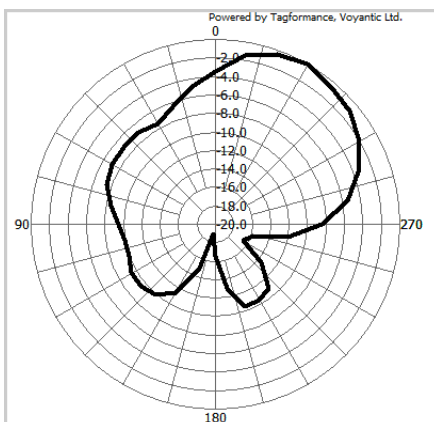
Material and Design Specifications

- Overall dimensions 2.75" x 0.75" x 0.038" (69.85 x 19.05 x 0.97 mm)
- 0.008" (0.2032 mm) thick permanent pressure sensitive adhesive
- White thermal transfer receptive polyester face stock
- Rated for moderate to harsh indoor environments
- Material is produced blank/no encoding **Service Bureau printing/encoding is a custom option

Technical Specifications

- **Read Range:** Up to 25 ft. (7.62 m) on metal
- **RF protocol:** EPC Global Class 1 Gen 2
- **Frequency:** FCC 902-928 MHz
- Multiple IC options available

Radiation Pattern



Key Features

- Up to 25 ft. (7.62 m) read range on metal surfaces
- 40% less material than previous product
- Ideal for item-level retail tracking
- Available for next-day delivery

Applications

- Item-level retail tracking
- Single use, high volume

Ribbon Recommendations

- Wax/Resin DNP TRX-50
- Wax/Resin IMP General Purpose
- Full Resin DNP V300
- Full Resin TR4070

Environmental Specifications

- Minimum Application Temperature -20° F (-28.9 °C)
- Temperature Range: -40° F to +175° F (-40 to 79.4 °C)
- UV Resistance: Recommend indoor use only
- Chemical Resistance: Can withstand mild cleaning chemicals and brief exposure to solvents
- Minimum bend radius: 3" or 76.2 mm (when wrapped horizontally around a curved surface)

Test Results

These tests were conducted for a limited period in strict laboratory conditions. To achieve maximum satisfaction, we highly recommend any customer considering use of this product test the labels in the environment in which they will be used.

Chemical Soak Test: Summarizes if tag survived soaking in fluids noted below for 2 hours in room temperature conditions without falling apart and the inlay still responding. Note: Thermal transfer print results are dependent on the type of ribbon used. A full resin ribbon is recommended for maximum durability.

Product	Water	Glass Cleaner	Bathroom Cleaner	99% Isopropyl Alcohol	Acetone	Sodium Hydroxide	Nitric Acid	Hydrochloric Acid	Brake Fluid	Diesel
Eco Mini RFID Tag	NE	NE	NE	NE	NR	NE	NE	NE	NE	NE

Key: NE = No Effect, NR = Not Recommended

Temperature Resistance: Note - Inlay may stop responding above 185° F (85° C) or below -40° F (-40° C); will need to bring tag within this temperature range for proper operation.

Product	-40° F (-40° C) 24 hours	200° F (93.3° C) Continuous	250° F (121.1° C) 1 Hour	300° F (148.9° C) 1 Hour
Eco Mini RFID Tag	NE	NE	NE	NR

Key: NE = No Effect, NR = Not Recommended

Outdoor Exposure: Test Method - ASTM D4329 using QUV Weatherometer. Test consisted of 8 hours of UV exposure with UVA-340 lamps followed by 8 hours of condensation. Test determines if tag materials survive exposure without yellowing or cracking, and verify that the inlay still reads.

Product	2,000 Hours of Exposure
Eco Mini RFID Tag	NR

Key: NR = Not Recommended

Installation Instructions

1. Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc. debris that may affect adhesion.
2. Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
3. Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
4. Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive sealing.

Industry Compliance



intertek