



DuraDestruct RFID Tags

RFID FOR PLASTIC SURFACES

The specialized construction of these tags eliminates the transferability of the RFID tag and incorporates two levels of destructibility. If someone attempts to remove the tag then the RFID antenna breaks into separate pieces.

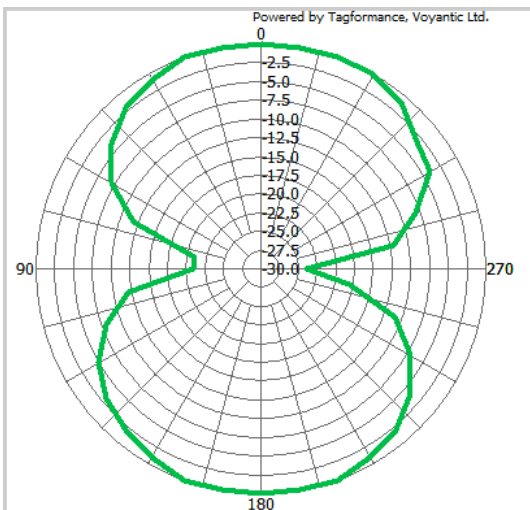
Material and Design Specifications

- Overall dimensions - 4" x 1" x 0.0175" (101.6 x 25.4 x 0.45 mm)
- 0.0035" (0.09 mm) pressure-sensitive acrylic adhesive
- Polyester material
- Features digital printing for complex details/logos

Technical Specifications

- **RF protocol** Class 1 Gen 2 EPC ISO/IEC 18000-6C Compliant
- **Frequency** 840-960 MHz (Global)
- **Chip** Impinj Monza R6P
- **Read range through glass** up to approximately 40 ft. (12.19 m)

Radiation Pattern



Key Features

- Up to 40 ft. (12.19 m) read range through plastic surfaces
- Digital printing leads to detailed logos and designs
- Great for access control applications
- Patented product design
- Compatible with RFID Tracking Software

Applications

- Asset Tracking
- Access Control
- Loyalty Program

Environmental Specifications

- Minimum Application Temperature: 50° F (10° C)
- Operating Temperature Range: -40° F to 185° F (-40 to 85° C)
- UV Resistance: Indoor/outdoor use
- Chemical Resistance: Excellent resistance to strong acids like nitric acid and hydrochloric acid and strong alkalines such as sodium hydroxide. It can withstand exposure to mild and moderate chemicals such as glass cleaners but exposure to acetone should be avoided.

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 Test Summary: Samples applied to glass panels, allowed to wet out for 72 hours and then they were immersed in the chemicals below with ambient room temperature conditions.

Product (Time)	Water	Salt Water	Bathroom Cleaner	Glass Cleaner	Isopropanol 99%	Brake Fluid	Acetone	Diesel Fuel	Nitric Acid	Hydrochloric Acid	Sodium Hydroxide
DuraDestruct RFID Tags (2 Hours)	NE	NE	NE	NE	AO	AO	AO	AO	NE	NE	NE
(24 Hours)	NE	NE	NE	NE	AO	AO	AO	AO	NE	NE	NE
(48 Hours)	NE	NE	NE	PE	AO	AO	AO	AO	NE	NE	NE

Note: Inlays in all samples still reading after 48 hours of exposure.

Key

NE = No Effect

PE = Print erosion under laminate

AO = Adhesive ooze

Max Material Temperature Exposure

DuraDestruct RFID Tag

350° F (177° C) for up to 1 hour

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