Universal RFID Hard Tag
UNIVERSAL PRODUCT LINE

The Universal RFID Hard Tag features impact-resistant housing combined with an ultrasonically welded seal that protects the subsurface printed label and RFID inlay from harsh environments including harmful UV rays.
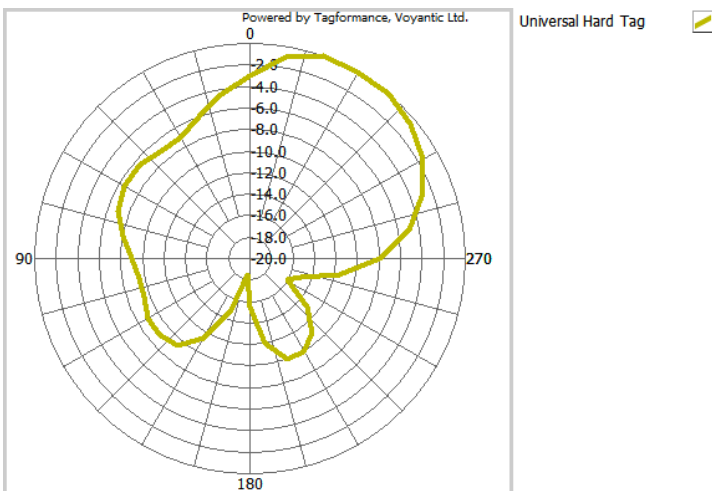
Material and Design Specifications

- Overall dimensions: 2.875" x 1.375" x 0.20" (73.03 x 34.93 x 5.08 mm)
- 0.031" (0.79 mm) pressure-sensitive acrylic adhesive
- 0.002" (0.051 mm) thick polyester; 0.20" (5.08 mm) total product thickness
- Preprinted material (digital printing process)

Technical Specifications

- **RF protocol** EPC global Class 1 Gen 2
- **Frequency** 860-960 MHz (Global)
- **IC type:** Various
- **Chip memory:** Various
- **Read range on metal** up to 20 ft. (6.10 m)
- **Polarization** Linear

Radiation Pattern

Key Features

- Up to 20 ft. (6.10 m) read range on metal surfaces
- Patented inlay design obtains excellent read range regardless of surface - metal, plastic or even wood
- Subsurface printing on durable polyester protects printed copy against moderate solvents/acids
- Digital printing process provides for greater print capacity with detailed logos or special designs
- Pre-programmed/Pre-encoded is standard

Applications

- Asset Tracking
- Work-in-Process
- Warehouse

Environmental Specifications

- Minimum Application Temperature 50° F (10° C)
- Temperature Range: -40° F to 185° F (-40 to 85° C)
- UV Resistance: Indoor/outdoor use
- Chemical Resistance: Can withstand moderate cleaning chemicals and brief exposure to solvents

UNIVERSAL RFID
BY **METAL CRAFT**

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: This rating measures barcode readability on various labels after being exposed to chemicals listed below for a 6-hour soak.										
Product	Water	Glass Cleaner	Bathroom Cleaner	Alcohol	Acetone	Sodium Hydroxide	Nitric Acid	Hydrochloric Acid	Brake Fluid	Diesel
Universal RFID Hard Tag	NE	NE	NE	NE	HS	NE	NE	NE	NE	NE
Key: NE = No Effect, HS = Housing Softened										

Heat Test
Universal RFID Hard Tag
200° F (93.3° C)

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

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