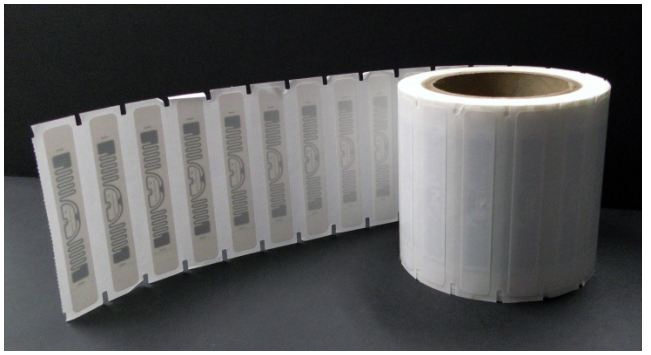


RFID Life Vest Tag

RFID FOR AEROSPACE/AVIATION

The RFID Life Vest Tag reduces both time and labor from hours to just minutes with increased accuracy while improving daily presence checks and expiration date inspections with our RFID Life Vest Tags.

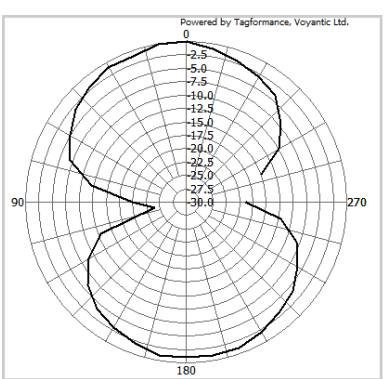
Material and Design Specifications

- Overall dimensions 4" x 0.625" x 0.0064" (101.6 x 15.88 x 0.16 mm) is the standard size, other sizes available
- .0008" (0.8 mil) thick permanent pressure sensitive adhesive
- 0.0023" (2.3 mil) white polypropylene
- Rated for moderate to harsh indoor environments
- Tags are produced blank/no encoding **optional Service Bureau thermal transfer printing and encoding compliant with ATA Spec 2000 from Metalcraft is available
- Black printer sense marks on liner backing available. Punched printer notches for thermal transfer printer also available

Technical Specifications

- **Read Range:** Up to 30 ft. (9.14 m)
- **RF protocol:** EPC Global Class 1 Gen 2
- **Frequency:** FCC 860-960 MHz
- **User Memory:** 2k bits, other options available
- **EPC Memory:** Up to 448 bits, other options are available
- Multiple IC options available

Radiation Pattern



Key Features

- Up to 30 ft. (9.14 m) read range
- Complies with SAE AS5678B
- Can include a dual-record format that allows you to store birth record and serial data while the remaining lifecycle and maintenance data is unlocked
- Customizable with company logos, messaging, barcodes and more

Applications

- Aerospace/Aviation Industry

Ribbon Recommendations

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

Environmental Specifications

- Minimum Application Temperature -20 °F (-28.9 °C)
- Temperature Range: -65 °F to +185 °F (-53.9 to 85 °C)
- UV Resistance: Recommend indoor use only
- Chemical Resistance: Excellent resistance to strong acids and alkaline solutions. Mild to moderate resistance to cleaning chemicals and solvents. Avoid exposure to acetone.

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.

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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 tags in the environment in which they will be used.

Chemical Resistance: Tags immersed in ambient room temperature conditions with inspection at time intervals noted below. Thermal transfer printed with V300 full resin ribbon.											
Product - Immersion Time and Sample	Water	Salt Water	Bathroom Cleaner	Glass Cleaner	Isopropanol Alchohol	Brake Fluid	Acetone	Diesel Fuel	Nitric Acid	Hydrochloric Acid	Sodium Hydroxide
Life Vest Tag - 2 Hours	NE	NE	NE	NE	AO, ER	NE	AO, ER	AO, ER	NE	NE	NE
Life Vest Tag - 24 Hours	NE	NE	NE	NE	AO, ER	NE	AO, ER	AO, ER	NE	NE	NE
Life Vest Tag - 48 Hours	NE	NE	NE	AO, ER	AO, ER	NE	AO, ER	AO, ER	NE	NE	NE
Key	NE = No Effect, AO = Adhesive Ooze, AL = Loss of Adhesion to Glass Panel, TD = Tag Delaminated, ER = Adhesive Erosion										

Max Temperature Exposure for RFID Life Vest Tag:
Up to 250 °F (121.2 °C) for 1 hour

Cold Temperature Exposure: Samples applied to glass panels at ambient room temperature conditions, then placed in freezer set to -40 °F for 24 hours. Samples checked for delamination and other defects.	
Sample	Results
Life Vest Tag	NE
Comments: No adhesion loss to glass panel; inlay still reading with RAY12 key FOB reader	

Heat Tests - 150-450 °F: Samples applied to glass panels, same sample exposed to each temperature noted below for 1 hour.							
Sample	150 °F	200 °F	250 °F	300 °F	350 °F	400 °F	450 °F
Life Vest Tag	NE	NE	NE	SS	TM	TM	TM
Key: NE = No Effect, TD = Sample Discolored SS = Sample Shrunk and TM = Tag Melted							

Industry Compliance