



Features

Ideal for bale attachment and tracking
Removable and reusable – creates more ROI
Made of durable polymer materials
Compatible with RFID Tracking Software

Product Print Options

Barcode . Data Matrix . QR Code . RFID .
Serial Number . Text

Product Functionality

Abrasion Resistance . Chemical
Resistance . Heat Resistance .
UV/Outdoor Durability

Popular Applications

Agriculture . Warehouse / Distribution
Centers . Manufacturing

Category

RFID Hanging Tags

Metalcraft's RFID Bale Tag is the ideal solution for tagging and tracking any type of bale. Whether it's for agricultural, cardboard, printing, recycling materials, fabrics or non-wovens, the RFID Bale Tag can easily be attached to any type of bale.

The tag's polymer construction protects the text and RFID inlay from the elements providing superior tag stability, durability and performance compared to other paper-based RFID tags.

The 5/16" nickel grommet gives additional strength to the tag to ensure tags cannot tear away due to wind or weakening around the attachment point from moisture or wear.

Available in a wide variety of colors, each tag can be custom printed to meet any design specification and provide high contrast and visibility on any bale.

Potential Applications for RFID Bale Tags

Asset Tracking – the asset id number programmed into the RFID tag plus the barcode and human readable number on

Metalcraft's RFID Bale Tags can be used to track information about the [asset the tag is attached to](#).

Returnable Containers – Metalcraft's RFID Bale Tags are perfect for tracking both metal and non-metal returnable containers such as pallets, bins, racks. RFID Hang Tags can also be used to track the contents of the containers themselves. Automate the process completely using a portal or fixed RFID reader.

Work-in-Process – the number programmed into the RFID tag plus the barcode and human readable on Metalcraft's RFID Bale Tags can identify a "batch" OR "lot" of product or just simply identify each product obtaining reads at every data collection point as it travels through the production process. And because they are not permanently affixed to the item they can easily be reused thereby maximizing your tag ROI.

For more information read our case study, [Weighing The Benefits Of RFID](#).

Specifications Data

| | |
|-------------------|---|
| Material | .002" polypropylene, .001 polyester over laminate |
| Serialization | Bar code and human-readable equivalent is produced using the latest high-resolution digital technology available, which provides excellent clarity and easy scanning. Code 39 is the standard symbology with a range of 2.7 to 9.4 CPI (characters per inch). Optional symbologies are available. |
| Label Copy | The label copy may include block type, stylized type, logos or other designs |
| Colors | Standard colors include black, red, yellow, green, dark blue, orange, purple or blue. Custom spot colors are also available at no additional charge. Due to contrast needed for the bar code scanner, all bar codes are black. |
| Standard Adhesive | Hanging tag |
| Frequency Range | 860-960 MHz |
| Sizes | 6" x 3.5" |
| Packaging | Shipped in "work-out- of" cartons for convenient application. |

Chemical Testing

Chemical Soak Test Results (24 hours): Test of label structure and printed image as well as readability of inlay.

Chemical Test Data

| Test conditions | Result |
|------------------|-------------------------------|
| Water | no effect |
| Glass cleaner | no effect |
| Bathroom cleaner | no effect |
| Alcohol | no effect |
| Acetone | Delaminated, inlay unreadable |
| NaOH | no effect |
| Nitric acid | no effect |

Destructive Testing

Destructive Test Data

| |
|--|
| |
| |
| |

Temperature Testing

Temperature Test Data

| |
|--|
| |
| |
| |

Read Range Testing

In many cases the tags read intermittently for longer distances than those indicated, however, the results reported below were for continuously responding reads.

Read Range Test Data

Anechoic chamber results

| Sample | Metal | Plastic | Cardboard | Wood | Free Air |
|---------|---------|---------|-----------|---------|----------|
| Average | 15 feet | 8 feet | 8 feet | 12 feet | 27 feet |

Barcode Readability Testing

Barcode Readability Test Data

| |
|--|
| |
| |
| |

Abrasion Testing

Abrasion Test Data

| |
|--|
| |
| |
| |

Label Adhesion Testing

Label Adhesion Test Data

| |
|--|
| |
| |
| |

Pull Testing

Pull Test Data

| |
|--|
| |
|--|

| |
|--|
| |
|--|