



Features

Expertise in working with the UID spec
Digital printing process ensures bar code readability

Subsurface printing protects against extreme solvents, caustics, acids, and modern abrasion while eliminating need for a laminate

Durable .003" thick polyester material easily conforms to uneven or radius surface

.0035" thick adhesive provides excellent adhesion to low-surface energy materials
ITAR Compliant

Established company with a reputation for durable and reliable products

Product Print Options

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

Product Functionality

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

Popular Applications

Government . Inventory

Category

Unique Item Identification (UID) . Unique Item Identification (UID)

Digital printing ensures bar code readability as well as crisp, clean company logos while subsurface printing protects the logos, copy and bar code against extreme solvents, caustics, acids and moderate abrasion – ensuring the mark with last the service lifetime of the item being identified.

Specifications Data

Material	.003" thick white or silver polyester that can withstand moderate to harsh exposure, mild to moderate abrasion, and temperatures up to 250°F for short durations.
Bar Code & Serialization	All alphanumeric bar codes are printed with a human-readable equivalent.
Label Copy	The label copy may include block type, stylized type, logos or other designs. All copy, block type, stylized type, logos, designs, and bar code are subsurface printed. This unique process provides excellent resistance to solvents, caustics, acids, and moderate abrasion.
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	High performance adhesive
Sizes	Various sizes available
Packaging	Produced and shipped in roll form. Strip form is optional. Cleaning solution is provided to assist in applying to a clean surface. Cartons are clearly marked to indicate serial numbers of labels.
Shipment	6 business days

Chemical Testing

Labels were applied to a clean glass substrate and submerged in the following chemicals for 6 hours. A 180 degree peel test was performed on each label to measure peel strength and a percentage peel strength change was calculated based on a sample left in standard room temperature dry conditions. No bar code grade loss was experienced after the chemical tests on Craftmark labels.

Chemical Test Data

Chemical Resistance of Adhesive

	Water	Glass Cleaner	Bathroom Cleaner	Isopropyl Alcohol	Acetone	NaOH pH 12	HN03 pH 12	HCl pH 12	Brake Fluid	Diesel Fuel
Peel Strength (control)	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1	9.1
Actual Peel Strength (lb/in)	8.8	9.6	9.2	8.5	6.3	8.3	8.2	8.3	8	6.7

Destructive Testing

Labels survived more than 6,000 revolutions on Taber Abrader using Calibrase H18 wheel with 1000g weight and remained readable with a bar code reader.

Destructive Test Data

Temperature Testing

Labels were applied to a clean glass substrate and heated to the temperatures listed below for 1 hour. Peel tests were performed to compare change in adhesive strength and bar codes were graded before and after testing to measure image degradation severity.

Temperature Test Data

Adhesive Strength Change after Heat Exposure

	104o F/40° C for 1 hour	212o F/100° C for 1 hour	302o F/150° C for 1 hour	392o F/200° C for 1 hour
Peel Strength (control)	9.1	9.1	9.1	9.1
Actual Peel Strength (lb/in)	8.1	8.1	8.2	3.4

Read Range Testing

Read Range Test Data

Barcode Readability Testing

Barcode Readability Test Data

Abrasion Testing

Abrasion Test Data

Label Adhesion Testing

Label Adhesion Test Data

Pull Testing

Pull Test Data
