

UID "CRAFTMARK" Polyester Labels



Unique Item Identification - or UID as it is commonly referred - is a Department of Defense mandate that requires a globally Unique Item Identifier to track items throughout their lifecycle. Because the mandate specifies the UID mark must last the service life of the item being identified, this presents some challenging marking applications in difficult environments.

For UID applications in mild to moderate conditions or environments where the product will be exposed to extreme solvents Metalcraft offers "CRAFTMARK" Polyester Labels. These sturdy labels feature subsurface printing which, combined with our thickest polyester, protects the logos, copy, and bar code against extreme solvents, caustics, acids, and moderate abrasion. This unique process also eliminates the need for a laminate thereby eliminating the additional cost for the laminate as well as the possibility of delamination. And because it is a Metalcraft UID product you receive all the same benefits as our other UID products – expert knowledge from our team of UID specialists, verification and validation reports, etc.*

*As well as UID products that are compliant according to International Traffic in Arms Regulations (ITAR).

Key Product 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
- Established company with a reputation for durable and reliable products
- ITAR Compliant

To order call

641.423.9460 or

800.437.5283

and ask for a UID Specialist

METAL CRAFT

ID MADE BETTER

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UID "CRAFTMARK" Polyester Labels Specifications

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.

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 or blue. 2+ color option includes custom colors and four-color process for an unlimited color palette. Due to contrast needed for the bar code scanner, all bar codes are black.

Sizes: Send email to Metalcraft@idplate.com or fax request to 641-423-8898 or call 800-437-5283 for details on available sizes.

Standard Adhesive: .0035" MC78 adhesive. This adhesive has excellent durability, particularly suited for a wide range of poly-olefin and other low-surface energy materials (powderpaints, etc.).

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 work days upon receipt of order and proof.

To Order: Call **1-800-437-5283** and ask for UID Specialist.

Test Results

These tests were conducted for a limited period of time in strict laboratory conditions. In order to achieve maximum satisfaction we highly recommend that any customer considering use of this product test the labels in the environment in which they will be used.

Chemical Resistance Test: 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.

Chemical Resistance of Adhesive

	Water	Glass Cleaner	Bathroom Cleaner	Isopropyl Alcohol	Acetone	NaOH pH 12	HNO3 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

Bar Code Grade Loss after Chemical Exposure: No bar code grade loss was experienced after the chemical tests on "CRAFTMARK" labels.

Heat Test: 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.

Adhesive Strength Change after Heat Exposure

	104° F/40° C for 1 hour	212° F/100° C for 1 hour	302° F/150° C for 1 hour	392° 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

Bar Code Grade Loss after Heat Exposure

	104° F/40° C for 1 hour	212° F/100° C for 1 hour	302° F/150° C for 1 hour	392° F/200° C for 1 hour
	0	2	2	No read

Adhesive Peel Strength Test (control)

Substrate	Results
Glass	9.1
Aluminum	11.1
Painted Steel	7.5
HDPE	5.1

*Values in lb/in

Abrasion Test: 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.