

# ID Advantage Polyester Barcode Labels



## Features

Polyester over laminate option ensures long-lasting performance  
.001 thick pressure-sensitive adhesive bonds well to a wide variety of surfaces  
Roll format standard  
Digital printing process ensures bar code readability as well as crisp, clean company logos.

## Product Print Options

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

## Product Functionality

Abrasion Resistance . Chemical Resistance

## Popular Applications

Churches . Hospitals . IT Assets . Schools

## Category

Manufacturing . Information Technology .  
Medical . Equipment Rental . Education .  
Asset Tracking . Tool Tracking . Work-in-Process . Plastic Barcode Labels

Gain the advantage for your asset tracking solution with Metalcraft's ID Advantage Barcode Labels. Whether it's unlimited color options, a thin profile, digital printing or yet another advantage, Metalcraft's ID Advantage Barcode Labels are ideal for high volume tracking applications in a mild to moderate environment.

Adding the .001" thick clear polyester overlaminate to the product provides additional protection to the barcode and/or copy while our digital printing process and unlimited color options shows off even the most detailed logos, styles and artwork. Laser converting means no die costs for custom sizes.

# ID Advantage Polyester Barcode Labels

## Specifications Data

Material	.002" thick white polyester; available with .001" thick clear polyester over laminate
Serialization	Bar code and human-readable equivalent is digitally printed – providing 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 linear and 2D symbologies available. Although this product is primarily marketed as a bar code product, we can produce it with human-readable numbers only or unserialized.
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	High performance adhesive
Sizes	1.25" x .5"; 1.5" x .75"; 1.75" x .5"; 2" x .75"; 2" x 1"; 2" x .625"
Packaging	Shipped on convenient rolls with scrap matrix removed for ease of removal. Cleaning solution is provided to assist in applying to a clean surface. Cartons are clearly marked to indicate serial numbers of labels.
Shipment	11 business days

## Chemical Testing

Labels were applied to a clean glass substrate and submerged in the following chemicals for three hours. A 180 degree peel test was performed on each label to measure peel strength and a percentage peel strength loss was calculated based on a sample left in standard room temperature dry conditions.

### Chemical Test Data

Chemical resistance of adhesive

	Water	Glass cleaner	Bathroom cleaner	Isopropyl alcohol 99%	Acetone	NaOH pH 12.0	HCl	Brake fluid	diesel fluid
Peel strength change	+6%	+21%	+11%	-5%	-22%	+16%	+22%	+16%	+3%
Actual Peel strength (lb/in)	3.4	3.9	3.6	3.1	2.5	3.7	3.9	3.7	3.3

## Destructive Testing

### Destructive Test Data


## Temperature Testing

Labels were applied to a clean glass substrate and heated to the temperature listed below for one 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 loss after heat exposure

	40° C for 1 hour	100° C for 1 hour	150° C for 1 hour	200° C for 1 hour
Peel strength change	+13%	-3%	+26%	+70%
Actual Peel strength (lb/in)	3.6	3.1	4.0	5.5

## Read Range Testing

### Read Range Test Data


## Barcode Readability Testing

Bar code was unreadable after 200°C/392°F test.

Barcode Readability Test Data

Bar code grade loss after heat exposure

	40° C for 1 hour	100° C for 1 hour	150° C for 1 hour	200° C for 1 hour					
Peel Strength Change	+13%	-3%	+26%	+70%					
Actual Peel Strength (lb/in)	3.6	3.1	4.0	5.5					
Bar code grade loss after chemical exposure									
Water	Glass cleaner	Bathroom cleaner	Isopropyl alcohol 99%	Acetone	NaOH pH 12.0	HNo3 pH 1.0	HCl pH 1.0	Brake Fluid	Diesel Fluid
1	1	0	0	1	0	1	1	1	0

## Abrasion Testing

Labels were tested with a Taber abrader set at 500g with Calibrase CS-10 wheels. Labels survived 6,000 revolutions while remaining readable with a bar code reader.

Abrasion Test Data


## Label Adhesion Testing

Label Adhesion Test Data


## Pull Testing

Pull Test Data
