

Premium Polyester Barcode Labels



Metalcraft's Premium Polyester Barcode Labels provide both flexibility and functionality for your asset tracking needs.

Designed for a variety of applications, the versatile polyester is pliable enough to conform to curved surfaces and durable enough to resist caustics, solvents and mild abrasion.

Premium Polyester Barcode Labels are subsurface printed which provides an extra layer of protection for the logos, copy and barcode against solvents, caustics, acids and mild abrasion. This unique process eliminates the need for a laminate; thereby eliminating the cost for the laminate as well as the possibility of delamination. The .002" thick, pressure-sensitive adhesive provides permanent adhesion.

The digital printing process used to produce these labels ensures even the most detailed logo will look crisp and clean. Custom colors available at no additional charge.

Features

Durable .002" polyester material easily conforms to curved or uneven surfaces
Adhesive bonds well to plastics and metal surfaces
Digital printing process ensures bar code readability as well as crisp, clean company logos

Product Print Options

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

Product Functionality

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

Popular Applications

Audio / Visual . Government . Restoration . Churches . Construction / Tool Tracking . Hospitals . IT Assets . Manufacturing . Schools

Category

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

Specifications Data

Material	.002" thick white or silver polyester
Bar Code & 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 include Code 128, I 2 of 5, 2D DataMatrix and QR Code.
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, particularly suited for a wide range of polyolefin and other low-surface energy materials (powderpaints, etc.)
Sizes	2" x 1"; 2" x .625"; 1.25" x .5"; 1.5" x .75" 2" x .75"; 1.75" x .5"
Packaging	Shipped on convenient rolls with scrap matrix removed for ease of removal. 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 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 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 Fluid
Peel Strength (control)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

Destructive Testing

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	212° F/100° C for 1 hour	302° F/150° C for 1 hour	392° F/200° C for 1 hour
Peel Strength (Control)	5.5	5.5	5.5	5.5
Actual Peel Strength (lb/in)	4.6	5.1	4.8	2.1

Read Range Testing

Read Range Test Data

Barcode Readability Testing

Barcode Readability Test Data

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	1	1	2

Abrasion Testing

Labels survived more than 2,500 revolutions on Taber Abrader using Calibrase H18 wheel with 1000g weight and remained readable with a bar code reader.

Abrasion Test Data

Label Adhesion Testing

Label Adhesion Test Data

Pull Testing

Pull Test Data