



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 moderate abrasion.



Our Premium Polyester Barcode Labels are available with our ColorFast™ option - a Tedlar® laminate that extends outdoor exposure for up to 10 years! Contact Metalcraft at 1-800-437-5283 or 641-423-9460 for more details.

Material and Design Specifications

- 0.002" (0.051 mm) thick white, clear or silver polyester
- Overall dimensions - various sizes available
- 0.002" (0.051 mm) thick (standard), 0.0035" (0.09 mm) thick (optional) high-performance pressure-sensitive acrylic adhesives
- Polyester material
- Features digital printing for complex details/logos
- Service Bureau printing options available.

Technical Specifications

- All alphanumeric barcodes are digitally printed with human-readable equivalent to guarantee no skips in sequence
- Code 39 with 2.7 to 9.4 characters per inch (CPI) is standard
- Other barcode symbologies include Code 128, I 2 of 5, 2D DataMatrix and QR Code. OCR characters and CPIs are also available

Premium Polyester Barcode Labels

BARCODE LABEL LINE

Key Features

- Flexible and durable
- Conforms to curved surfaces
- Resists caustics, solvents and mild abrasion
- Custom colors are available at no additional charge
- Compatible with asset tracking software

Applications

- Asset Tracking
- Tool Tracking
- Work-in-Process
- Product Identification

Environmental Specifications

- Minimum Application Temperature: (0.002" and 0.0035" adhesives): +50 °F (10 °C)
- Service Temperature Range (0.002" and 0.0035" adhesives): -40 to +300 °F (-40 to +149 °C)
- UV Resistance: Up to 5 years of UV resistance
- Chemical Resistance: Excellent resistance to strong acids and alkaline solutions, very good resistance to flammable and combustible solvents and a wide variety of cleaning products.

Test Results

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

Chemical Test Summary: Samples were applied to glass panels, allowed to wet out 72 hrs., and immersed in the chemicals below with ambient room temperature conditions.

| Immersion Time and Material | Water | Salt Water 5% NaCl | Bathroom Cleaner | Glass Cleaner | Isopropanol | Brake Fluid | Acetone | Diesel Fuel | Nitric Acid pH 1.0 | Hydrochloric Acid pH 1.0 | Sodium Hydroxide pH 12.0 |
|-----------------------------|-------|--------------------|------------------|---------------|-------------|-------------|---------|-------------|--------------------|--------------------------|--------------------------|
| 48 hours - Premium Poly | NE | NE | AO | NE | AO | NE | TD | AO, ER | NE | NE | NE |

Key: NE - No Effect, AO - Adhesive Ooze, AL - Loss of Adhesion to Glass Panel, TD - Tag Delaminated, PE - Print Erosion Under Subsurface PET, ER - Adhesion Erosion

Cold Temperature Exposure: Samples were applied to glass panels at ambient room temperature conditions and they sat for 72 hours. Then they were placed in a freezer set to -40 °F for 24 hours. Samples checked for defects including delamination.

| Sample | Results |
|--------------|---------|
| Premium Poly | NE |

Heat Tests: 200-500 °F - Samples applied to glass panels, the same sample was exposed to each temperature noted below for 1 hour

| Sample | 200 °F | 250 °F | 300 °F | 350 °F | 400 °F | 450 °F | 500 °F |
|--------------|--------|--------|--------|--------|------------|------------|--------|
| Premium Poly | NE | NE | NE | SS, TP | SS, TD, TP | SS, TD, TP | TM |

Key: NE - No Effect, TD - Sample Materials Discolored, TP - Sample Print Degradation, TM - Tag Melted/Destroyed, SS - Sample Shrinking, Adhesive Ooze at Edges

Abrasion Test Summary

Labels survived more than 2,500 revolutions on Taber Abrader using Calibrase H18 wheel with 1,000 gram weight and remained readable with a barcode reader.

Installation Instructions

- Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc. debris that may affect adhesion.
- Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
- Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
- Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive sealing.

Industry Compliance



intertek

