



Removable Paint Mask Barcode Labels

PAINT-RESIST LABELS

Metalcraft's Removable Paint-Mask Barcode Labels have a unique one-time removable paint mask. They are designed to resist tough manufacturing environments and they can withstand temperatures up to 300 °F. After painting, peel off the paint-mask for a clean barcode that's ready to scan - an ideal solution for tracking through the production process.

Material and Design Specifications

- 0.002" (0.06 mm) thick polyester; available in white or silver.
- Overall dimensions - various sizes available
- High performance adhesive
- Features digital printing for complex details/logos
- Serialized/unserialized numbers and barcodes with human readable numbers

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, 1 2 of 5, 2D DataMatrix and QR Code. OCR characters and CPIs also available

Key Features

- One-use 0.002" thick polyester paint-mask that is designed to resist tears when removing and withstands temperatures up to 300 °F for short periods of time
- Conforms to uneven or curved surfaces
- Subsurface printing protects against extreme solvents, caustics, acids and moderate abrasion while eliminating need for a laminate
- Digital printing process ensures barcode readability as well as crisp, clean company logos

Applications

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

Environmental Specifications

- Minimum Application Temperature: +50 °F (10 °C)
- Service Temperature Range: -40 °F to +300 °F (-40 °C to +148.9 °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. Please note that these results are for the product once the paint mask is removed.

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 - Removable Paint Mask Label	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 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
Removable Paint Mask Label	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
Removable Paint Mask Label	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

1. 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.
2. Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
3. Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
4. Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive sealing.

Industry Compliance



intertek

