



Thermal Transfer Printed Polyester IUID Labels

IUID LABEL AND TAG LINE

Our Polyester IUID Labels are a superb general purpose option for industrial applications where durability, excellent adhesion and cost is a factor. Effective across a wide range of temperatures, polyester labels offer permanent acrylic adhesion and excellent image quality. Their thermal receive coating provides cross-links with resin ribbons to form a chemical and abrasion resistant image.

Material and Design Specifications

- 0.002" polyester material
- Standard adhesive: 0.001" (0.03 mm) high performance acrylic adhesive
- Sizes: Various sizes are available
- Can be thermal transfer printed with human and machine-readable information using high-contrast black print resin.

Technical Specifications

- All logos are digitally printed
- 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 also available

Key Features

- Excellent adhesion
- Good thermal transfer printability with a wide variety of wax/resin and resin ribbons
- Available in a range of label sizes
- ITAR compliant

Applications

- Asset Tracking
- Government/Military
- Outdoor/Industrial

Environmental Specifications

- Minimum Application Temperature +50 °F (10 °C)
- Service Temperature Range: -40 °F to +302 °F (-40 to 150 °C)
- UV Resistance: Polyester material and attachment adhesive is rated up to 5 years. Thermal transfer print UV resistance is dependent on ribbon used.
- Chemical Resistance: Excellent resistance to strong acids and alkaline solutions. Mild to moderate resistance to cleaning chemicals and solvents. Avoid exposure to acetone.
- Recommended Thermal Transfer Ribbons: Wax/resin ribbons such as DNP TRX-50 and full resin ribbons such as DNP TR4070 and DNP V300

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 tags in the environment in which they will be used.

Chemical Test Summary: This rating measures barcode readability on various levels after being exposed to the chemicals listed below.

Immersion Time for Thermal Transfer Printed Polyester IUID Labels	Water	Salt Water	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
2 Hours	NE	NE	NE	NE	NE	NE	ER	NE	NE	NE	NE
24 Hours	NE	NE	NE	NE	AO	NE	ER, TD	AO	NE	NE	NE
48 Hours	NE	NE	NE	NE	AO	ER	ER, TD	AO	NE	NE	NE

Key: NE - No Effect, ER - Printed Image Eroded/Dissolved, AO - Adhesive Ooze, AL - Loss of Adhesion to Glass Panel, TD - Tag Delaminated, PE - Flexo or Indigo Print Erosion Under Laminate, OE - Overlam Edge Lift

Temperature Test Data: Heat Test

Product	Max Temperature
Thermal Transfer Printed Polyester IUID Labels	302 °F (150 °C) intermittent

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

