

Effective Date: 9/19/2014

**Description:**

LabelTac Premium Vinyl Label Supply is an indoor/outdoor, high gloss marking film with a pressure sensitive. It is designed for use in roll form using any LabelTac Industrial Thermal-Transfer Printer.

**Details:**

**Use:** LabelTac Premium Vinyl Label Supply is used for pipe marking labels, pipe banding for directional flow, warehouse rack marking and barcoding, equipment warning labels and safety signs, wayfinding, arc flash and other electrical marking, and 5S Visual Workplace labeling.

**Substrate Type:** Vinyl film.

**Standard Material Colors:** Yellow, white, black, red, green, orange, blue, gray, purple, brown, clear, pink, gold, silver gray, light blue, high visibility pink, high visibility yellow.

**Thickness (PSTC-133):** 0.0025 in.(0.06 mm)

**Adhesive Properties:****Adhesion to Steel (PSTC-101)**

15 Minute Dwell (Avg.) – 80 oz/in (87.5 N/100mm)  
Ultimate Dwell (72 Hrs.) 85 oz/in (93 N/100mm)

**Tack** (ASTM D 2979) (Avg) 1100 g (10.5 N)

**Adhesion to Powder Coated Metal (PSTC-101)**

15 Minute Dwell (Avg.) 60 oz/in (65 N/100mm)

**Ultimate Dwell** (72 Hrs.) 75 oz/in (82 N/100mm)

**Adhesion to Polypropylene (PSTC-101)**

15 Minute Dwell (Avg) 60oz/in (65 N/100mm)  
Ultimate Dwell (72 Hrs.) (Avg) 69 oz/in (75 N/100mm)

**Adhesion to Textured ABS (PSTC-101)**

15 Minute Dwell (Avg) 37 oz/in (40 N/100mm)  
Ultimate Dwell (72 Hrs.) (Avg) 40 oz/in (44 N/100mm)

**Adhesion to Glass (PSTC-101)**

15 Minute Dwell (Avg) 82 oz/in (90 N/100mm)  
Ultimate Dwell (72 Hrs.) (Avg) 88 oz/in (96 N/100mm)

**Note** – LabelTac Premium Vinyl Label Supply is not recommended for unfinished concrete without an overlamine or protective top layer.

**Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):**

CS-10 wheels, 500 g wts.  
The printed legend withstands up to 250 cycles.

**Gloss (ASTM D 523):** 60 ° 50 Gardner Units minimum.

**Minimum Application Temperature** 40°F (4°C).

**Service Temperature:** -40°F to 180°F (-40°C to 82°C).

**Average Outdoor Durability:** 5 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques and material color.) The 5 year outdoor durability applies to the vinyl label stock only; ribbon durability will vary. An overlamine is recommended for harsh environments - long term exposure to wind and rain.

**Chemical Resistance:** Samples were printed with the standard performance LabelTac LP403 ribbon using the LabelTac 4 PRO Industrial Thermal Transfer Printer. Testing conducted at room temperature.

**Shelf Life:** Product testing, customer feedback, and history of similar products support a customer performance expectation of at least one year from the receipt of this product as long as this product is stored in its original packaging in an environment below 80°F (27°C) and 60% RH. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use in their actual application.

To maintain print quality and performance, LabelTac Premium Vinyl Label Supply should be stored at the recommended conditions.

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% Hydrochloric Acid	NE	NE	NE
10% Hydrochloric Acid	NE	NE	NE
Glacial Acetic Acid	F	F	NE
5% Acetic Acid	NE	NE	NE
50% Sodium Hydroxide	NE	NE	NE
10% Sodium Hydroxide	F	NE	NE
10 % Ammonia	NE	NE	NE
5% Sodium Hypochlorite	NE	NE	NE
Methyl Ethyl Ketone Acetone	F	F	F
Toluene	F	F	F
Methanol	F	F	F
Isopropyl Alcohol	F	NE	NE
Heptane	F	NE	NE
Mineral Spirits	F	F	NE
Turpentine	F	F	NE
Kerosene	F	F	NE
Diesel Fuel	NE	NE	NE
Gasoline	F	F	F
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
10% Sodium Chloride	NE	NE	NE
Alconox®	NE	NE	NE
Deionized Water	NE	NE	NE

NE = No Effect NT= Not Tested F= Failed (affected Sample)

**7 Day Immersion:** Immersed in reagent for 7 days.

**Dip Test:** Five 10 minute dips in reagent with 30 minute recovery.

**Rub Test:** Rubbed sample for 1 minute with swab soaked in reagent.

**Note –** All values shown are averages and should not be used for specification purposes. Test data and test results contained in this document are for general information only and shall not be relied upon by Creative Safety Supply customers for designs and specifications, or be relied on as meeting specified performance criteria.

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