

## BRADY B-851 ECONOMY POLYESTER TAGS

TDS No. B-851

Effective Date: 07/28/2015

### Description:

Brady B-851 Economy Polyester Accident Prevention Tag with optional 3/8" ID metal grommets.

### Details:



### Use:

Brady B-851 is used for marking on-the-spot warning of dangerous conditions.

### Special Properties:

Brady B-851 conforms to OSHA specification 1910.145 for accident prevention tags.

### Substrate Type:

Heavy duty polyester

### Standard Material Colors:

White, blue, red, yellow, orange and green

### Standard Legend Colors:

Black, red, green, and blue

### Thickness (ASTM D 1593):

Total: 0.010 in. (0.25mm)

### Pullout Strength (ASTM D 638):

75 lb (with grommet)

50 lb (without grommet)

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

CS-10 wheels, 1000 g wts.

Legend withstands up to 100 cycles

Background withstands up to 150 cycles

### Service Temperature:

-40°F to 212°F (-40°C to 100°C)

### Average Outdoor Durability:

3-5 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions.)

### Chemical Resistance:

| REAGENT           | 7 DAY IMMERSION | DIP TEST | RUB TEST |
|-------------------|-----------------|----------|----------|
| 30% Sulfuric Acid | NE              | NE       | NE       |
| 10% Sulfuric Acid | NE              | NE       | NE       |
| 30% HCl           | NE              | NE       | NE       |
| 10% HCl           | NE              | NE       | NE       |

|                       |    |    |    |
|-----------------------|----|----|----|
| 50% NaOH              | NE | NE | NE |
| 10% NaOH              | NE | NE | NE |
| Methyl Ethyl Ketone   | F  | F  | F  |
| Acetone               | NE | NE | F  |
| 1,1,1-Trichloroethane | NE | NE | F  |
| Methanol              | NE | NE | NE |
| IPA (Isopropanol)     | NE | NE | NE |
| ASTM #3 Oil           | NE | NE | NE |
| SAE 20 Oil            | NE | NE | NE |
| Alconox®              | NE | NE | NE |
| Toluene               | NE | NE | F  |
| Mineral Spirits       | NE | NE | NE |
| Glacial Acetic Acid   | F  | F  | F  |
| 5% Acetic Acid        | NE | NE | NE |
| Diesel Fuel           | NE | NE | NE |
| Heptane               | F  | NE | NE |
| Turpentine            | NE | NE | NE |
| Kerosene              | NE | NE | NE |
| Water                 | NE | NE | NE |
| Gasoline              | 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.

## BRADY B-851 TAGS with Optional Self-laminate

### **Description:**

Brady B-851 Economy Polyester Tag with a 1mil clear polyester overlay.

### **Special Properties:**

Brady B-851 tags conform to OSHA specification 1910.145 for accident prevention tags.

### **Substrate Type:**

Heavy duty polyester with polyester overlay

### **Standard Material Colors:**

White, blue, red, yellow, orange and green

### **Standard Legend Colors:**

Black, red, green, and blue

### **Thickness (ASTM D 1593):**

Total: .014 in. (0.36 mm)

### **Pullout Strength (ASTM D 638):**

75 lb

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

CS-17 wheels, 1000 g wts.

Overlay withstands up to 1000 cycles

### **Service Temperature:**

-40°F to 248°F (-40°C to 120°C)

### **Average Outdoor Durability:**

Up to 8 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions.)

### **Chemical Resistance:**

| REAGENT                | 7 DAY IMMERSION | DIP TEST |
|------------------------|-----------------|----------|
| 30% Sulfuric Acid      | NE              | NE       |
| 10% Sulfuric Acid      | NE              | NE       |
| 30% Hydrochloric Acid  | NE              | NE       |
| 10% Hydrochloric Acid  | NE              | NE       |
| Glacial Acetic Acid    | F               | NE       |
| 5% Acetic Acid         | NE              | NE       |
| 50% Sodium Hydroxide   | NE              | NE       |
| 10% Sodium Hydroxide   | F               | NE       |
| 10% Ammonia            | NE              | NE       |
| 5% Sodium Hypochlorite | NE              | NE       |
| Methyl Ethyl Ketone    | F               | F        |
| Acetone                | F               | F        |
| Toluene                | F               | F        |
| 1,1,1-Trichloroethane  | F               | F        |
| Methanol               | F               | NE       |
| Isopropyl Alcohol      | F               | NE       |
| Heptane                | F               | NE       |
| Mineral Spirits        | F               | NE       |
| Turpentine             | F               | F        |
| Kerosene               | F               | NE       |
| Diesel Fuel            | F               | NE       |
| Gasoline               | F               | F        |
| ASTM #3 Oil            | NE              | NE       |
| SAE 20 Oil             | NE              | NE       |
| 10% Sodium Chloride    | NE              | NE       |
| Alconox®               | NE              | NE       |
| Water                  | NE              | NE       |

NE = No Effect

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.

## [BRADY B-851 Thermal Transfer Printable Tags](#)

### **Description:**

Brady B-851 Economy Polyester Tag.

### **Special Properties:**

Brady B-851 tags conform to OSHA specification 1910.145 for accident prevention tags.

### **Substrate Type:**

Heavy duty polyester

### **Standard Material Colors:**

White, blue, red, yellow, orange and green

### **Standard Legend Colors:**

Black, red, green, and blue

### **Thickness (ASTM D 1593):**

Total: .014 in. (0.36 mm)

### **Pullout Strength (ASTM D 638):**

75 lb

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

CS-10 wheels, 250g wts.

Legend withstands up to 100 cycles

**Service Temperature:**

-40°F to 248°F (-40°C to 120°C)

**Average Outdoor Durability:**

3-5 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions.)

**Recommended Ribbon**

Brady R6200 Series Ribbon

White and Yellow tags are only recommended bar code printing

**Chemical Resistance:**

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

**Shelf Life:**

1 year when stored at 70°F (21°C) and 40% to 50% R.H.

**Trademarks:**

Alconox® is a registered trademark of Alconox Co.

Signmark® is a registered trademark of Brady Worldwide, Inc.

ASTM: American Society for Testing and Materials (U.S.A.)

Fed. Spec.: United States Federal Specification (U.S.A.)

OSHA: Occupational Safety & Health Administration

SAE: Society of Automotive Engineers (U.S.A.)

All SI units (metric) are mathematically derived from the US conventional units.

**Note:** All values shown are averages and should not be used for specification purposes.

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