



**THE DATASHEET OF**  
**48024**



**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 &amp; 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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