

Technical Data Sheet

BRADY B851 ECONOMY POLYESTER TAGS

TDS No. B851 Effective Date: 07/28/2015

Description: Brady B851 Economy Polyester Accident Prevention Tag with optional 3/8" ID metal grommets.

Details:

Use: Brady B851 is used for marking onthespot warning of dangerous conditions.

Special Properties: Brady B851 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): CS10 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: 35 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 1,1,1Trichloroethane 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 B851 TAGS with Optional Selflaminat

Description: Brady B851 Economy Polyester Tag with a 1mil clear polyester overlay.

Special Properties: Brady B851 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): CS17 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 B851 Thermal Transfer Printable Tags

Description: Brady B851 Economy Polyester Tag.

Special Properties: Brady B851 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): CS10 wheels, 250g wts. Legend withstands up to 100 cycles

Service Temperature: 40°F to 248°F (40°C to 120°C)

Average Outdoor Durability: 35 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. Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

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