

**BRADY B-418 PLASTIC UTILITY TAG**

TDS No. B-418  
 Effective Date: 02/15/2001

**Description:**

Brady B-418 is a high performance tag comprised of a plastic tag with an inlaid polyester label and protected graphics. It is available in various sizes.

**Details:**



**Use:**

Brady B-418 tags are designed for use in the Utility industry and other harsh environments.

**Substrate Type:**

Polyester label, with a choice of Tedlar® or polyester overlamine, on a plastic tag.

**Standard Tag Colors:**

Black, red, green, blue, and yellow

**Standard Label Colors:**

White and yellow

**Standard Legend Colors:**

Black, red, blue, green, yellow, and custom colors

**Thickness (PSTC-33):**

Label: 0.009 in. (0.23 mm)  
 Tag: 0.155 in. (3.94 mm)

**BRADY B-418 WITH TEDLAR® OVERLAMINATE**

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

CS-17 wheels, 1000 g weights  
 Overlamine withstands up to 800 cycles.

**Service Temperature:**

-40°F to 260°F (-40°C to 127°C)

**Average Outdoor Durability:**

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

**Chemical Resistance:**

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	F	NE	NE
10% Sulfuric Acid	F	NE	NE
30% HCl	F	NE	NE
10% HCl	F	NE	NE
50% NaOH	F	NE	NE
10% NaOH	F	NE	NE

Methyl Ethyl Ketone	F	F	NE
Acetone	F	F	NE
1,1,1-Trichloroethane	F	F	NE
Methanol	NE	NE	NE
IPA (Isopropanol)	F	NE	NE
ASTM #3 Oil	F	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	F	F	NE
Mineral Spirits	F	F	NE
Glacial Acetic Acid	F	NE	NE
5% Acetic Acid	NE	NE	NE
Diesel Fuel	F	NE	NE
Heptane	F	NE	NE
Cellosolve Acetate	F	F	NE
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	F	F	NE
Kerosene	F	NE	NE
Water	NE	NE	NE
Gasoline	F	F	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-418 WITH POLYESTER OVERLAMINATE

### **Chemical Analytical Results:**

Halogens as Cl: 750 to 850 ppm

Water leachable Fluoride: <2ppm

Water leachable Chlorides: <50ppm

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

CS-17 wheels, 1000 g weights

Overlaminates withstands up to 1000 cycles.

### **Service Temperature:**

-40°F to 293°F (-40°C to 145°C)

### **Average Outdoor Durability:**

2-3 years (Average expected outdoor life of product will depend on user definition of failure and climatic conditions.)

### **Chemical Resistance:**

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	F	NE	NE
10% Sulfuric Acid	F	NE	NE
30% HCl	F	NE	NE
10% HCl	F	NE	NE
50% NaOH	F	NE	NE
10% NaOH	F	NE	NE
Methyl Ethyl Ketone	F	F	NE
Acetone	F	F	NE
1,1,1-Trichloroethane	F	F	NE
Methanol	NE	NE	NE

IPA (Isopropanol)	F	NE	NE
ASTM #3 Oil	F	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	F	F	NE
Mineral Spirits	F	F	NE
Conc. Acetic Acid	F	NE	NE
5% Acetic Acid	NE	NE	NE
Diesel Fuel	F	NE	NE
Heptane	F	NE	NE
Cellosolve Acetate	F	F	NE
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	F	F	NE
Kerosene	F	NE	NE
Water	NE	NE	NE
Gasoline	F	F	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.

**Shelf Life:**

5 years 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.

Tedlar® is a registered trademark of Du Pont de Nemours, E.I. and Company.

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

PSTC: Pressure Sensitive Tape Council (U.S.A.)

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

All S.I. Units (metric) are mathematically derived from the U.S. 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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