

## BRADY B-302 PRINTED POLYESTER LABEL

TDS No. B-302

Effective Date: 01/16/2018

### Description:

Brady B-302 is an indoor/outdoor high performance pressure sensitive safety sign, and is surface printed polyester, with a polyester overlamine.

### Details:



### Use:

Brady B-302 is used for safety signs, identification of fire alarms, extinguishers, and emergency exits.

### Special Properties:

Brady B-302 is particularly suited for outdoor applications, and in harsh environments where excellent abrasion and chemical resistance is required beyond a surface printed label. B-302 has a cold temperature adhesive that makes the sign able to apply at 0°F (-18°C).

### Adhesive Type:

Permanent cold temperature pressure sensitive acrylic

### Substrate Type:

Polyester film

### Standard Material Colors:

White, yellow, and orange

### Standard Legend Colors:

Black, blue, red, green, white, yellow, orange, and magenta

### Thickness (PSTC-33):

Total: 0.006 0.010 in. (Avg. range)

### Adhesive Properties:

Adhesion to Steel (PSTC-1)

15 Minute Dwell (Avg.) --65 oz/in. (71 N/100mm)

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

Tack (ASTM D 2979) (Avg.) --1170 g (11 N)

Drop Shear (PSTC-7) (Avg.) --20 Hrs.

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

CS-17 wheels, 1000 g wts.

Polyester laminate withstands up to 1000 cycles.

**Service Temperature:**

-40°F to 230°F (-40°C to 110°C)

**Minimum Application:**

0°F (-18°C)

**Gloss:**

120 Gardner Units

**Average Outdoor Durability:**

5-8 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     | NE              | NE       | NE       |
| 10% Sulfuric Acid     | NE              | NE       | NE       |
| 30% HCl               | NE              | NE       | NE       |
| 10% HCl               | NE              | 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              | F               | NE       | NE       |
| IPA (Isopropanol)     | F               | NE       | NE       |
| ASTM #3 Oil           | NE              | NE       | NE       |
| SAE 20 Oil            | NE              | NE       | NE       |
| Alconox®              | NE              | NE       | NE       |
| Toluene               | F               | F        | NE       |
| Mineral Spirits       | F               | NE       | NE       |
| Glacial Acetic Acid   | NE              | NE       | NE       |
| 5% Acetic Acid        | NE              | NE       | NE       |
| Diesel Fuel           | F               | NE       | NE       |
| Heptane               | F               | F        | NE       |
| 10% Ammonia           | NE              | NE       | NE       |
| Kerosene              | F               | NE       | NE       |
| Water                 | NE              | NE       | NE       |
| 20% Sodium Carbonate  | NE              | NE       | NE       |
| 2% Sodium Carbonate   | NE              | NE       | NE       |
| 10% NaCl              | NE              | NE       | NE       |
| Bleach                | 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.

Shelf life is two years from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80° F (27° C) and 60% RH. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

**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.)

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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