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## Technical Data Sheets

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### Technical Data Sheet

#### BRADY B-302 PRINTED POLYESTER LABEL

TDS No. B-302  
 Effective Date: 10-Nov-2010

#### 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.

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **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*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use in their actual applications.

**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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

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