

**BRADY B-181 DURAGUARD® PROPERTY IDENTIFICATION TAGS**

TDS No. B-181  
Effective Date: 04/04/2013

**Description:**

Brady B-181 DuraGuard® property identification tags consist of a metalized film surface printed legend with protective tamper resistant laminate for indoor and outdoor use.

Brady B-181 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

**Details:**

**Use:**

Brady B-181 is used for identification on computers, office equipment, desks, chairs, tables, file cabinets, tools, fire extinguishers, machinery, and electrical appliances.

**Substrate Type:**

Metallized film with a plastic overlamine

**Standard Material:**

Red, green, black, light blue, dark blue, and burgundy

**Standard Legend Colors:**

Silver & Black

**Thickness (PSTC-33):**

Total: 0.006 in. (0.15mm)

**Tensile Strength (PSTC-31):**

Break - 120 lbs/in. (2100 N/100mm)

**Elongation (PSTC-31):**

Break - 100%

**Adhesive Properties:**

Adhesion to Steel (PSTC-1)  
15 Minute Dwell (Avg.) -- 100 oz/in. (109 N/100mm)  
Ultimate Dwell (72 Hrs.)(Avg.) -- 121 oz/in. (132 N/100mm)  
Tack (ASTM D2979)(Avg.) -- 1700 gm (16.7 N)  
Drop Shear (PSTC-7)(Avg.) --- 1,000 hrs.

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

CS-17 wheels, 500 g wts.  
Legend withstands up to 1900 cycles.

**Chemical Resistance:**

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

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

**Expected Gloss:**

130 Gardner Units minimum (60° gloss)

**Minimum Application Temperature:**

50°F (10°C)

**Service Temperature:**

-40°F to 293°F (-40°C to 145°C)

**Average Outdoor Durability:**

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

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.

DuraGuard® is a registered trademark of Tricor Direct Inc.

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.)

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

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

**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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