



## Technical Data Sheet

### Brady B-595 Vinyl Film With Permanent Adhesive

TDS No. B-595

Effective Date: 02/18/2010

#### **Description:**

Brady B-595 indoor/outdoor marking film is a high gloss, durable, flexible, pressure sensitive adhesive product, designed for use in cartridge form with the GlobalMark® Industrial Label Maker and MiniMark™ Industrial Label Printer.

#### **Details:**

##### **Use:**

Brady-595 is used for Pipemarkers, Arrow Tape, Warehouse Marking, Warning Panels, Safety Signs, Arc Flash and Visual Workplace labels.

Brady B-595 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

##### **Special Properties:**

Permanent cold temperature applicable pressure sensitive acrylic.

##### **Substrate Type:**

Vinyl film.

##### **Standard Material Colors:**

White, red, yellow, green, blue, orange, black, gray, brown, gold, purple, clear.

##### **Standard Legend Colors:**

Black, white, red, green, blue and magenta.

##### **Thickness (PSTC-133):**

0.004 in.(0.10 mm)

##### **Adhesive Properties:**

Adhesion to Steel (PSTC-101)

15 Minute Dwell (Avg.) – 80 oz/in (87.5 N/100mm)

Ultimate Dwell (72 Hrs.) 85 oz/in (93 N/100mm)

Tack (ASTM D 2979) (Avg) 1100 g (10.5 N)

Adhesion to Powder Coated Metal (PSTC-101)

15 Minute Dwell (Avg.) 60 oz/in (65 N/100mm)

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

Adhesion to Polypropylene (PSTC-101)

15 Minute Dwell (Avg) 60oz/in (65 N/100mm)

Ultimate Dwell (72 Hrs.) (Avg) 69 oz/in (75 N/100mm)

Adhesion to Textured ABS (PSTC-101)

15 Minute Dwell (Avg) 37 oz/in (40 N/100mm)

Ultimate Dwell (72 Hrs.) (Avg) 40 oz/in (44 N/100mm)

Adhesion to Glass (PSTC-101)

15 Minute Dwell (Avg) 82 oz/in (90 N/100mm)

Ultimate Dwell (72 Hrs.) (Avg) 88 oz/in (96 N/100mm)

- **Note** - B-595 is not recommended for Bare concrete or Unpainted Wood

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

CS-10 wheels, 500 g wts.

The printed legend withstands up to 250 cycles.

**Gloss (ASTM D 523):**

60° 50 Gardner Units minimum.

**Minimum Application Temperature:**

0°F (-18°C).

**Service Temperature:**

-40°F to 180°F (-40°C to 82°C).

**Average Outdoor Durability:**

8-10 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques and material color.) Ribbon and material UV resistance does not represent ribbon wear. A polyester overlamine is recommended for harsh environments - long term exposure to wind and rain.

Chemical Resistance:

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% Hydrochloric Acid	NE	NE	NE
10% Hydrochloric Acid	NE	NE	NE
Glacial Acetic Acid	F	F	NE
5% Acetic Acid	NE	NE	NE
50% Sodium Hydroxide	NE	NE	NE
10% Sodium Hydroxide	F	NE	F
10 % Ammonia	NE	NE	F
5% Sodium Hypochlorite	NE	NE	NE
Methyl Ethyl Ketone	F	F	F
Acetone	F	F	F
Toluene	F	F	F
Methanol	F	NE	F
Isopropyl Alcohol	F	NE	NE
Heptane	F	NE	NE
Mineral Spirits	F	F	NE
Turpentine	F	F	NE
Kerosene	F	F	NE
Diesel Fuel	NE	NE	NE
Gasoline	F	F	F
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
10% Sodium Chloride	NE	NE	NE
Alconox®	NE	NE	F
Water	NE	NE	F

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:**

1 year when stored at 70°F (21°C) and 40% to 50% R.H..

To maintain print quality and performance, the B-595 tape cartridge should be stored at the recommended conditions.

**Trademarks:**

ANSI: American National Standards Institute (U.S.A.)  
ASTM: American Society for Testing and Materials (U.S.A.)  
Alconox® is a registered trademark of Alconox Co.  
Fed. Spec.: United States Federal Specification (U.S.A.)  
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PSTC: Pressure Sensitive Tape Council (U.S.A.)  
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SAE: Society of Automotive Engineers (U.S.A.)

**Note:** All values shown are averages and should not be used for specification purposes.

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