

## Search Technical Data Sheets



## Technical Data Sheet

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

TDS No. B-595  
Effective Date: 31-Aug-2011

#### **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 BBP® 31 Sign and Label Printer, GlobalMark® Industrial Label Maker, MiniMark™ Industrial Label Printer, PowerMark® Sign and Label Maker, Labelizer® Plus Sign and Label Maker, VersaPrinter™ Sign and Label Maker, BMP® 71 Label Printer, BMP® 21 Label Printer, IDXPRT™ Labeling Printer, and HandiMark® Portable Label Maker.

#### **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 acrylic pressure sensitive adhesive can be applied at cold temperatures.

##### **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, yellow, orange, 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.) The 8-10 year outdoor durability applies to the vinyl label stock only; ribbon durability will vary. A polyester overlamine is recommended for harsh environments - long term exposure to wind and rain.

**Chemical Resistance:**

Samples were printed with the standard performance R10000 ribbon using the BBP® 31 Sign and Label Printer. Testing conducted at room temperature.

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	NE
10 % Ammonia	NE	NE	NE
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	NE
Deionized Water	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:**

Product testing, customer feedback, and history of similar products support a customer performance expectation of at least **two years from the 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 application.

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

**Trademarks:**

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