

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

TDS No. B-595

Effective Date: 08/31/2011

**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 overlaminate 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.

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