Technical Data Sheet

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 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, IDXPERT™ Labeling Printer, and the HandiMark® Portable Label Maker.

Details:

Use:
B-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 temperature.

Substrate Type:
Vinyl film

Standard Material Colors:
White, red, yellow, green, blue, orange, black, gray, brown, gold, purple, and clear

Standard Legend Colors:
Black, white, red, green, blue, yellow, orange and magenta

Thickness (PSTC-33):
Total: 0.004 in. (0.10mm)

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.) 60 oz/in (65 N/100mm)

Adhesion to Textured ABS (PSTC-101)
15 Minute Dwell (Avg.) 37 oz/in (40 N/100mm)

Adhesion to Glass (PSTC-101)
15 Minute Dwell (Avg.) 82 oz/in (90 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.

Shelf Life and Fitness for Use: Product testing, customer feedback, and history of similar products, support a customer performance expectation of one year 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. 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:
ANSI: American National Standards Institute (U.S.A.)
ASTM: American Society for Testing and Materials (U.S.A)
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BBP® 31 is a registered trademark of Brady Worldwide, Inc.
BMP® 21 is a registered trademark of Brady Worldwide, Inc.
BMP® 71 is a registered trademark of Brady Worldwide, Inc.
Fed. Spec.: United States Federal Specification (U.S.A.)
GlobalMark™ Industrial Label Maker is a trademark of Brady Worldwide, Inc.
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Labelizer® is a registered trademark of Brady Worldwide, Inc.
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PSTC: Pressure Sensitive Tape Council (U.S.A.)
Powermark™ is a trademark of Brady Worldwide, Inc.
SAE: Society of Automotive Engineers (U.S.A.)
VersaPrinter™ is a trademark of Brady Worldwide, Inc.

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