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Technical Data Sheet

BRADY B-581 REPOSITIONABLE VINYL

TDS No. B-581
Effective Date: 08/12/2002

Description:
Brady B-581 indoor/outdoor marking film is a high gloss, durable, flexible, pressure sensitive adhesive product, designed for use in cartridge form with the Labelizer® Plus printer, VersaPrinter™ Label and Sign Maker System, and the HandiMark® Portable Label Maker, and the GlobalMark™ Industrial Label Maker.

Details:



Use:
B-581 is designed for printing indoor labels where frequent repositioning is required.

Adhesive Type:
Repositionable pressure sensitive acrylic

Substrate Type:
Vinyl film

Standard Material Colors:
White and yellow

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

Thickness (PSTC-33):
Total: 0.005 in. (0.125mm)

Adhesive Properties:
Adhesion to Steel (PSTC-1)
15 Minute Dwell (Avg.) -- 16 oz/in. (18 N/100)
Ultimate Dwell (72 Hrs.) (Avg.) -- 30 oz/in. (33 N/100)
Tack (ASTM D 2979) (Avg.) -- 515 g (5 N)
Drop Shear (PSTC-7) (Avg.) -- 14 Hrs.

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):
CS-10 wheels, 250 g wts.
The printed legend withstands up to 250 cycles
Substrate withstands up to 8000 cycles

Minimum Application Temperature
50°F (10°C)

Service Temperature
-40°F to 180°F (-40°C to 82°C)

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

Chemical Resistance:

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	F	NE	NE
10% Sulfuric Acid	F	NE	NE
30% HCl	F	NE	NE
10% HCl	F	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	F
Methanol	NE	NE	NE
IPA (Isopropanol)	NE	NE	NE
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	F	F	F
Mineral Spirits	F	NE	NE
Glacial Acetic Acid	F	F	F
5% Acetic Acid	NE	NE	NE
Diesel Fuel	F	NE	NE
Heptane	F	NE	NE
Cellosolve Acetate	F	F	F
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	F	F	F
Kerosene	F	NE	NE
Water	NE	NE	NE
Gasoline	F	F	F

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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.

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.

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VersaPrinter™ is a trademark of Brady Worldwide, Inc.
GlobalMark™ Industrial Label Maker is a trademark of Brady Worldwide, Inc.
ASTM: American Society for Testing and Materials (U.S.A)
PSTC: Pressure Sensitive Tape Council (U.S.A.)
SAE: Society of Automotive Engineers (U.S.A.)
All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units

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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