

**BRADY B-978 STANDARD VINYL FILM WITH PERMANENT ADHESIVE**

TDS No. B-978  
Effective Date: 01/08/2004

**Description:**

Brady B-978 indoor/outdoor marking film is a glossy, durable, flexible, pressure sensitive adhesive product designed for use in cartridge form with the GlobalMark™ Monochrome Industrial Label Maker.

**Details:**

**Use:**

Brady B-978 is used for any sign application.

**Special Properties:**

Permanent cold temperature applicable pressure sensitive acrylic

**Substrate Type:**

Vinyl film

**Standard Material Colors:**

White, red, yellow, green, blue

**Standard Legend Colors:**

Black, white, red, green, blue

**Thickness (PSTC-33):**

Total: 0.005 in. (0.125mm)

**Adhesive Properties:**

Adhesion to Steel (PSTC-1)  
15 Minute Dwell (Avg.) -- 65 oz/in. (71 N/100mm)  
Ultimate Dwell (72 Hrs.) (Avg.) -- 90 oz/in. (99 N/100mm)  
Tack (ASTM D 2979) (Avg.) -- 752 g (7.4 N)

**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 100 cycles.

**Gloss (ASTM D 523):**

60° - 40 Gardner Units minimum

**Minimum Application Temperature:**

41°F ( 5°C)

**Service Temperature:**

-4°F to 167°F (-20°C to 75°C)

**Average Outdoor Durability:**

3 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	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% HCl	NE	NE	NE
10% HCl	NE	NE	NE
50% NaOH	NE	NE	NE
10% NaOH	F	F	NE
Methyl Ethyl Ketone	F	F	F

Acetone	F	F	F
1,1,1-Trichloroethane	F	F	F
Methanol	NE	NE	NE
IPA (Isopropanol)	F	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

NE = No Effect

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.

**Trademarks:**

Alconox® is a registered trademark of Alconox Co.

Signmark® is a registered trademark of Brady Worldwide, Inc.

GlobalMark™ 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.)

**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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