

**BRADY B-509 MAGNETIC\_BACK POLYESTER**

TDS No. B-509  
Effective Date: 06/16/2003

**Description:**

Brady B-509 Magnetic Back Polyester is designed for use in cartridge form with the GlobalMark™ printer.

**Details:**

**Use:**

Brady B-509 is used for temporary, reusable and movable signs.

**Substrate Type:**

Magnetic sheeting with a white polyester surface

**Standard Material Colors:**

White

**Standard Legend Colors:**

Black, White, Red, Blue, Green, Magenta, Yellow, Orange, Process Cyan, Process Yellow, Process Magenta

**Thickness (PSTC-33):**

0.018 in. (0.46 mm)

**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 500 cycles.

**Gloss (ASTM D523):**

60° - 70 Gardner Units

**Minimum Application Temperature:**

0°F (-18°C)

**Service Temperature:**

0°F to 158°F (-18°C to 70°C)

**Average Outdoor Durability:**

3-5 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions.)

**Chemical Resistance:**

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% Hydrochloric Acid	F	NE	NE
10% Hydrochloric Acid	NE	NE	NE
Glacial Acetic Acid	F	F	F
5% Acetic Acid	NE	NE	NE
50% Sodium Hydroxide	NE	NE	NE
10% Sodium Hydroxide	NE	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
1,1,1-Trichloroethane	F	F	F
Methanol	F	NE	NE
Isopropyl Alcohol	NE	NE	NE

Heptane	F	NE	NE
Mineral Spirits	F	NE	NE
Turpentine	F	F	NE
Kerosene	F	NE	NE
Diesel Fuel	F	NE	NE
Gasoline	F	F	NE
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
10% Sodium Chloride	NE	NE	NE
Alconox®	NE	NE	NE
Water	NE	NE	NE

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.

**Product Life:**

5 years when stored at 70°F (21°C) and 40% to 50% R.H.

**Trademarks:**

Alconox® is a registered trademark of Alconox Co.

GlobalMark™ is a trademark of Brady Worldwide, Inc.

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

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

Fed. Spec.: United States Federal Specification (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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