

**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.

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