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Technical Data Sheet

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

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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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