

BRADY B-841 INKJET/LASER/DOT MATRIX PRINTABLE FILM

TDS No. B-841
 Effective Date: 09/30/2004

Description:
 Brady B-841 is a laser, inkjet and dot matrix printable polyester film.

Details:

Use:
 Brady B-841 is used for make it yourself Sign, Label and Tag creation.

Substrate Type:
 2 side functional polyester film

Standard Material Colors:
 White, yellow and orange

Thickness (ASTM D 1593):
 Total: 0.006 in. (0.006 in. (0.15mm))

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):
 (CS-10 wheels, 250 g wts.)
 Inkjet legend withstands up to 200 cycles.
 Laser legend withstands up to 400 cycles.
 Dot Matrix legend withstands up to 450 cycles with R2000 ribbon and up to 1600 cycles with R5000 ribbon.

Gloss:
 3 Gardner Units (60° gloss)

Average Outdoor Durability:
 Not recommended.

Chemical Resistance:
 NE = No Effect
 NT = Not Tested
 F = Failed (affected sample)

Test Method:
 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.

Inkjet and Laser Printed:

REAGENT	7 DAY IMMERSION LASER PRINTED	7 DAY IMMERSION INKJET PRINTED	DIP TEST LASER PRINTED	DIP TEST INKJET PRINTED	RUB TEST LASER PRINTED	RUB TEST INKJET PRINTED
30% Sulfuric Acid	F	F	NE	NE	F	F
10% Sulfuric Acid	F	F	NE	NE	F	F
30% HCl	F	F	NE	NE	F	F
10% HCl	F	F	NE	NE	F	F
50% NaOH	F	F	NE	NE	NE	NE
10% NaOH	F	F	NE	NE	NE	NE
Methyl Ethyl Ketone	F	F	F	F	F	F
Acetone	F	F	F	F	F	F
1,1,1-	F	NE	F	NE	F	F

Trichloroethane						
Methanol	F	F	F	F	F	F
IPA (Isopropanol)	F	F	F	F	F	F
ASTM #3 Oil	NE	NE	NE	NE	NE	NE
SAE 20 Oil	NE	NE	NE	NE	NE	NE
Alconox®	NE	F	NE	NE	F	F
Toluene	F	F	F	F	F	F
Mineral Spirits	NE	NE	NE	NE	F	F
Glacial Acetic Acid	F	F	F	F	F	F
5% Acetic Acid	NE	NE	NE	NE	F	F
Diesel Fuel	NE	NE	NE	NE	F	NE
Heptane	NE	NE	NE	NE	F	F
10% Ammonia	NE	F	NE	F	F	F
Turpentine	NE	NE	NE	NE	F	F
Kerosene	NE	NE	NE	NE	NE	NE
Water	NE	NE	NE	NE	F	F
Gasoline	F	F	F	F	F	NE
5% Sodium Hypochlorite	NE	NE	NE	NE	NE	NE

Dot Matrix Printed:

REAGENT	7 DAY IMMERSION DOT MATRIX R5000 RIBBON	7 DAY IMMERSION DOT MATRIX R2000 RIBBON	DIP TEST DOT MATRIX R5000 RIBBON	DIP TEST DOT MATRIX R2000 RIBBON	RUB TEST DOT MATRIX R5000 RIBBON	RUB TEST DOT MATIX R2000 RIBBON
30% Sulfuric Acid	NE	NE	NE	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE	NE	NE	NE
30% HCl	NE	NE	NE	NE	NE	NE
10% HCl	NE	NE	NE	NE	NE	NE
50% NaOH	F	F	F (P/TC)	F (P/TC)	NE	NE
10% NaOH	F	F	F (P/TC)	F (P/TC)	NE	NE
Methyl Ethyl Ketone	NE (SB)	NE (SB)	NE (SB)	NE	NE (MB)	NE (SB)
Acetone	NE	NE	NE	NE	NE (MB)	NE (SB)
1,1,1- Trichloroethane	NE (SB)	NE (SB)	NE (SB)	NE (SB)	NE (MB)	NE
Methanol	NE	NE	NE	NE	F (PR)	NE (SB)
IPA (Isopropanol)	NE	NE	NE (SB)	NE (SB)	NE	F (PR)
ASTM #3 Oil	NE	NE	NE	NE	NE	NE
SAE 20 Oil	NE	NE	NE	NE	NE	NE
Alconox®	NE	NE	NE	NE	NE	NE
Toluene	NE (MB)	NE	NE	NE	NE	NE
Mineral Spirits	NE	NE	NE	NE	NE	NE
Glacial Acetic Acid	NE	NE	NE	NE	F (P/TC)	F (P/TC)
5% Acetic Acid	NE (SB)	NE	NE	NE	NE	NE
Diesel Fuel	NE	NE	NE	NE	NE	NE
Heptane	NE	NE	NE	NE	NE	NE
10% Ammonia	NE	NE	NE	NE	NE	NE
Turpentine	NE (SB)	NE	NE	NE	NE	NE
Kerosene	NE	NE	NE	NE	NE	NE
Water	NE (SB)	NE	NE	NE	NE	NE
Gasoline	NE (SB)	NE (SB)	NE (MB)	NE	F (PR)	F (PR)

5% Sodium Hypochlorite	NE	NE	NE	NE	NE	NE
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Except where noted, all print was legible after exposure to chemicals.

NE = No Effect
 NT = Not Tested
 F = Failed (affected sample)

Additional Key:

SB = Slight Bleed of Ink
 MB = Moderate Bleed of Ink
 P/TC = Print and Topcoat Removed
 PR = Print Removed

Shelf Life:

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

BRADY B-841 WITH POLYESTER OVERLAMINATE

Description:

Brady B-841 with clear 2 mil polyester overlaminate.

Substrate Type:

Printable polyester film with a polyester overlaminate

Thickness (ASTM D 1593):

Total: .0097 in. (0.25mm)

Pullout Strength (ASTM D 638):

34 lb. (Avg.) (595 N) with plastic snap in grommet

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):

CS-17 wheels, 1000 g wts.
 Overlaminate withstands up to 2500 cycles.

Gloss:

90 Gardner Units (60° gloss)

Service Temperature:

-40°F to 194°F (-40°C to 90°C)

Average Outdoor Durability:

1-2 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques and material color.)

Chemical Resistance (with 2 mil polyester overlaminate):

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	NE	NE	NE
Methyl Ethyl Ketone	F	F	F
Acetone	F	F	NE
1,1,1-Trichloroethane	F	F	NE
Methanol	F	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	NE
Mineral Spirits	F	NE	NE

Glacial Acetic Acid	F	F	NE
5% Acetic Acid	NE	NE	NE
Diesel Fuel	F	NE	NE
Heptane	F	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	F	NE	NE
Kerosene	F	NE	NE
Water	NE	NE	NE
Gasoline	F	NE	NE
5% Sodium Hypochlorite	NE	NE	NE

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.

Trademarks:

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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.

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