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BRADY
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Technical Data Sheet

BRADY B-744 INKJET AND LASER PRINTABLE SIGNS

TDS No. B-744
Effective Date: 17-Sep-1998

Description:
Brady B-744 is a polyester film with an acrylic pressure sensitive adhesive and a printable coating specially formulated for use with inkjet and laser printers.

Details:

Use:
B-744 is designed for printing signs and labels used for safety, maintenance and general markings within a facility. B-744 is not recommended for outdoor applications.

Special Properties:
As a material formulated for inkjet and laser printers, B-744 provides excellent print resolution, good smudge resistance, and moderate to high temperature performance.

Adhesive Type:
Pressure sensitive acrylic.

Substrate Type:
Polyester.

Standard Material Colors:
White, yellow and orange.

Adhesive Properties:
Adhesion to Steel (PSTC-1)
15 Minute Dwell (Avg.) -- 44 oz/in. (48 N/100mm)
Ultimate Dwell (72 hrs.) -- 56 oz/in. (61 N/100mm)
Tack (ASTM D2979)(Avg.) -- 376g (3.6N)
Drop Shear (PSTC-7)(Avg.) -- 1 hr.

Thickness (PSTC-33):
Total: 0.0034 in. (0.086 mm)

Tensile Strength (PSTC-31):
Break -- 20 lbs/in. (350 N/100mm)

Elongation (PSTC-31):
Break -- 70%

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):
CS-10 wheels, 250g wts.
Ink withstands up to 2,750 cycles
Preprint withstands up to 7,500 cycles
Substrate withstands over 20,000 cycles

Minimum Application Temperature:
0ºF (-18ºC)

Service Temperature:
-40ºF to 194ºF (-40ºC to 90ºC)

Chemical Resistance:
No exposure recommended unless overlaminated.

Average Outdoor Durability:
Not recommended for outdoor use.

Shelf Life:
One year when stored at 70ºF (21ºC) and 40% to 50% R.H.

B-744 WITH 2 MIL POLYESTER OVERLAMINATE

Thickness (PSTC-33):
Total: 0.006 in. (0.15 mm)

Tensile Strength (PSTC-31):
Break -- 100 lbs/in. (1750 N/100mm)

Elongation (PSTC-31):
Break -- 45%

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):
CS-17 wheels, 1000g wts.
Overlaminate withstood 2,500 cycles.

Service Temperature:
-40ºF to 194ºF (-40ºC to 90ºC)

Outdoor Durability:
Not recommended for outdoor use.

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	NE	NE
Acetone	F	NE	NE
1,1,1-Trichloroethane	F	NE	NE
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	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
Cellosolve Acetate	F	NE	NE
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	F	NE	NE
Kerosene	F	NE	NE
Water	NE	NE	NE
Gasoline	F	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:
Alconox® is a registered trademark of Alconox Co.
Signmark® is a registered 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.)
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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