Technical Data Sheet

BRADY B-418 PLASTIC UTILITY TAG

TDS No. B-418
Effective Date: 02/15/2001

Description:
Brady B-418 is a high performance tag comprised of a plastic tag with an inlaid polyester label and protected graphics. It is available in various sizes.

Details:

Use:
Brady B-418 tags are designed for use in the Utility industry and other harsh environments.

Substrate Type:
Polyester label, with a choice of Tedlar® or polyester overlaminate, on a plastic tag.

Standard Tag Colors:
Black, red, green, blue, and yellow

Standard Label Colors:
White and yellow

Standard Legend Colors:
Black, red, blue, green, yellow, and custom colors

Thickness (PSTC-33):
Label: 0.009 in. (0.23 mm)
Tag: 0.155 in. (3.94 mm)

BRADY B-418 WITH TEDLAR® OVERLAMINATE

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):
CS-17 wheels, 1000 g weights
Overlaminate withstands up to 800 cycles.

Service Temperature:
-40°F to 260°F (-40°C to 127°C)

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

Chemical Resistance:

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	F	NE	NE
10% Sulfuric Acid	F	NE	NE
30% HCl	F	NE	NE
10% HCl	F	NE	NE
50% NaOH	F	NE	NE
10% NaOH	F	NE	NE

Methyl Ethyl Ketone	F	F	NE
Acetone	F	F	NE
1,1,1-Trichloroethane	F	F	NE
Methanol	NE	NE	NE
IPA (Isopropanol)	F	NE	NE
ASTM #3 Oil	F	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	F	F	NE
Mineral Spirits	F	F	NE
Glacial Acetic Acid	F	NE	NE
5% Acetic Acid	NE	NE	NE
Diesel Fuel	F	NE	NE
Heptane	F	NE	NE
Cellosolve Acetate	F	F	NE
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	F	F	NE
Kerosene	F	NE	NE
Water	NE	NE	NE
Gasoline	F	F	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.

BRADY B-418 WITH POLYESTER OVERLAMINATE

Chemical Analytical Results:
Halogens as Cl: 750 to 850 ppm
Water leachable Fluoride: <2ppm
Water leachable Chlorides: <50ppm

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):
CS-17 wheels, 1000 g weights
Overlaminate withstands up to 1000 cycles.

Service Temperature:
-40°F to 293°F (-40°C to 145°C)

Average Outdoor Durability:
2-3 years (Average expected outdoor life of product will depend on user definition of failure and climatic conditions.)

Chemical Resistance:

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

IPA (Isopropanol)	F	NE	NE
ASTM #3 Oil	F	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	F	F	NE
Mineral Spirits	F	F	NE
Conc. Acetic Acid	F	NE	NE
5% Acetic Acid	NE	NE	NE
Diesel Fuel	F	NE	NE
Heptane	F	NE	NE
Cellosolve Acetate	F	F	NE
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	F	F	NE
Kerosene	F	NE	NE
Water	NE	NE	NE
Gasoline	F	F	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.

Shelf 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.
Signmark® is a registered trademark of Brady Worldwide, Inc.
Tedlar® is a registered trademark of Du Pont de Nemours, E.I. and Company.
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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