Technical Data Sheet

BRADY B-302LS PRINTED POLYESTER LABEL

TDS No. B302LS
Effective Date: 08/29/2024

Description:
Brady B302LS is an indoor/outdoor high performance pressure sensitive safety sign, and is surface printed polyester, with a polyester overlaminate made only for B-302LS label sets.

Details:

Use:
Brady B-302LS is used for identification needs through a label set which allows for customizable text, color, graphics, and die-cut shapes. For needs outside of label sets, refer to B-302, a non-UL approved material.

Special Properties:
Brady B-302LS is particularly suited for outdoor applications, and in harsh environments where excellent abrasion and chemical resistance is required beyond a surface printed label. B-302LS has a cold temperature adhesive that makes the sign able to apply at 0°F (-18°C).

Regulatory/Agency Approvals
B-302LS is UL certified. See UL file MH10939 for specific details. UL information can be accessed on line at UL.com in the UL Product iQ area.

Adhesive Type:
Permanent cold temperature pressure sensitive acrylic

Substrate Type:
Polyester film

Standard Material Colors:
White, yellow, and orange

Standard Legend Colors:
Black, blue, red, green, white, yellow, orange, and magenta

Thickness (PSTC-33):
Total: 0.006 0.010 in. (Avg. range)

Adhesive Properties:
Adhesion to Steel (PSTC1)
15 Minute Dwell (Avg.) 65 oz/in. (71 N/100mm)
Ultimate Dwell (72 Hrs.) (Avg.) - 75 oz/in. (82 N/100mm)

Tack (ASTM D 2979) (Avg.) - 1170 g (11 N)
Drop Shear (PSTC-7) (Avg.) - 20 Hrs.

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

Service Temperature:
-40°F to 230°F (-40°C to 110°C)

Minimum Application:
0°F (18°C)

Gloss:
120 Gardner Units

Average Outdoor Durability:
5-8 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	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% HCl	NE	NE	NE
10% HCl	NE	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	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	NE	NE	NE
5% Acetic Acid	NE	NE	NE
Diesel Fuel	F	NE	NE
Heptane	F	F	NE
10% Ammonia	NE	NE	NE
Kerosene	F	NE	NE
Water	NE	NE	NE
20% Sodium Carbonate	NE	NE	NE
2% Sodium Carbonate	NE	NE	NE
10% NaCl	NE	NE	NE
Bleach	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.

Shelf life is two years from the date of receipt for this product as long as this product is stored in its original packaging in an environment below 80° F (27° C) and 60% RH. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

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.
UL: Underwriters Laboratories Inc. (U.S.A.)

Note: All values shown are averages and should not be used for specification purposes.
Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

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