

Brady B-854 Metal Detectable Label for Harsh Washdown Environments

TDS No. B-854
 Effective Date: 03/26/2015

Description:

Brady B-854 Toughwash™ Metal Detectable Label is a durable, print on demand pressure sensitive adhesive product for the Food and Beverage Processing Industry, designed for use in cartridge form with the BBP® 31 Sign and Label Printer, BBP® 33 Label Printer, BMP® 71 Label Printer, and Globalmark® Industrial Label Maker.

Details:

Use:

Brady B-854 is used for Facility Marking, Warning Panels, Safety Signs, Arc Flash and Visual Workplace labels
 Brady B-854 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Special Properties:

Capable of being detected by commercially available metal detectors
 (individual detection levels will vary based on detector set up, Brady recommends testing labels for detection before installation)

Durable label construction is tough against harsh washdown environments and has been tested at washdown temperatures up to 175° F (80° C) and pressures up to 1500 PSI. Individual performance will vary based on application location and specific washdown conditions and procedures.

Substrate Type:

Polyester

Standard Material Colors:

White, Yellow

Thickness (PSTC-133)

.009 in. (.2mm)

Adhesive Properties

Adhesion to Steel (PSTC-101)
 15 Minute Dwell (Avg.) -- 65 oz/in (71 N/100mm)
 Ultimate Dwell (72 hrs) (Avg.) -- 105 oz/in (115 N/100mm)

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

CS-10 wheels, 500 g wts
 The printed legend withstands up to 250 cycles

Minimum Application Temperature

40° F (4° C)

Service Temperature:

-40° F to 230° F (-40° C to 110° C)

Printing Recommendations:

Brady B-854 is not recommended for printing with 8 pt font or smaller, 10 mil density barcodes, or large font inverse-printing.

Recommended Ribbon Series

Brady B-854 should only be used with the R-6000 ribbon series for the BMP71 Printer, BBP31 Printer, and BBP33 Printer. When using the GlobalMark Sign & Label Printer, B-854 should only be used with the Harsh Washdown Ribbon (134352). No other ribbon series is qualified for use with this material.

Chemical Resistance

Brady B-854 has been developed and tested for durability against a variety of Food and Beverage Industry cleaning and sanitizing solutions. Samples were printed with R6000 ribbon on the BBP® 31 Sign and Label Printer, laminated to 304 stainless steel 2B finish panels and soaked in solutions containing the following reagents:

Reagent	Type	Condition	Print Performance	Adhesive Performance
Enforce™ LP	chlorinated alkaline cleaner	50°C	NE	NE

HD PL-10™ Plus	inorganic acid cleaner	RT	NE	NE
Heavy Duty Acid LC-30	strong acid cleaner	70°C	NE	NE
Soil Off™ II	alkaline/near neutral cleaner	50°C	NE	NE
Madisan 75	quarternary amine sanitizer	RT	NE	NE
Vortexx™	peroxy acid/organic acid sanitizer	50°C	NE	NE
XY-12®	sodium hypochlorite sanitizer	RT	NE	NE

NE = No Effect

NT = Not Tested

F = Failed (text deterioration or sample delamination)

Chemical Resistance testing in the above chemicals was performed by completing 10 cycles of 10 minute dips with 20 minute rest periods between cycles. After the 10th cycle sample text was rubbed with a cotton-tip swab.

Shelf Life

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **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 degrees F (27°C) and 60% RH*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

Performance Expectations

The performance of ToughWash signs, tags and labels may vary based upon the specific environment it is subjected to (including variation in chemicals, water pressure, water temperature, and abrasive materials used during the wash down process). To ensure the performance meets user's requirements, ToughWash signs, tags and labels should be tested in user's specific environment with consistent monitoring. Please visit BradyID.com/food to order test samples and view more detailed product technical specifications.

Trademarks:

ANSI: American National Standards Institute (U.S.A.)

ASTM: American Society for Testing and Materials (U.S.A.)

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BMP® 71 is a registered trademark of Brady Worldwide, Inc.

Enforce™ is a trademark of Ecolab USA Inc.

Globalmark® is a registered trademark of Brady Worldwide, Inc.

HD PL-10™ Plus is a trademark of Ecolab USA Inc.

PSTC: Pressure Sensitive Tape Council (U.S.A.)

Soil Off™ II is a trademark of Ecolab USA Inc.

Toughwash® is a registered trademark of Brady Worldwide Inc.

Vortexx™ is a trademark of Ecolab USA Inc.

XY-12® is a registered trademark of Ecolab USA Inc.

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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