

BRADY B-8505 STAIN RESISTANT WHITE SLIDE LABEL

TDS No. B-8505
Effective Date: 02/05/2019

Description:

GENERAL

Print Technology: Thermal Transfer

Material Type: Polyester

Finish: Matte

Adhesive: Permanent acrylic

APPLICATIONS

Slide labeling and other lab identification

RECOMMENDED RIBBONS

Brady Series R4300

REGULATORY APPROVALS

For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites:

In Canada: www.bradycanada.ca/weee-rohs

In Europe: www.bradyeurope.com/rohs

In Japan: www.brady.co.jp/products/labelsuse/rohs

All other regions: www.bradyid.com/weee-rohs

SPECIAL FEATURES

B-8505, when printed with the Brady Series R4300 thermal transfer ribbon, is designed for use in the slide staining process and other laboratory identification which requires superior chemical resistance.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Total (excluding liner)	0.0038 inches (0.098 mm)
Adhesion to:		
-Glass	20 minute dwell 24 hour dwell	50 oz/inch (55.2 N/100 mm) 55 oz/inch (59.7 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	73 oz/in (80.3 N/100 mm) 81 oz/in (88.3 N/100 mm)
-Stainless steel	20 minute dwell 24 hour dwell	48 oz/in (52.8 N/100 mm) 80 oz/in (87.7 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	37oz (1038 grams)

PERFORMANCE PROPERTIES	ENVIRONMENTAL RESISTANCE
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B-8505 samples were printed with the Brady Series R4300 ribbon. Printed samples were laminated to glass microscope slides and then exposed to the indicated environmental conditions.

PERFORMANCE PROPERTIES	TEST METHODS	EFFECT TO LABEL	EFFECT TO PRINT IMAGE
High Service Temperature	30 days at 266°F (130°C)	No visible effect	No visible effect
Low Service Temperature	30 days at -112°F (-80°C)	No visible effect	No visible effect
Humidity Resistance*	30 days at 100°F (37°C), 80% relative humidity	No visible effect	No visible effect
Sterilizer resistance (autoclave resistance)	Ramp time 28-30 minutes, peak temperature 125°C, peak pressure 21 psi and peak duration 5 minutes, Sterilemax Table Top Steam Sterilizer, Series 1277	No visible effect	No visible effect
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm, 150 cycles	No visible effect	Print still legible after 500 cycles

PERFORMANCE PROPERTIES	CHEMICAL RESISTANCE
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B-8505 samples were printed with the Brady Series R4300 ribbon. Printed samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical followed by 30 minute recovery periods. After the final immersion, the printed image was rubbed 10 times with a cotton swab saturated with the test fluid. Testing was conducted at room temperature.

CHEMICAL REAGENT	EFFECT TO PRINT/TOPCOAT WITHOUT RUB	EFFECT TO PRINT/TOPCOAT WITH RUB	EFFECT TO ADHESIVE
Acetone	1	2	1
Ethanol	1	1	1
Toluene	1	2	1
Isopropanol	1	1	1
Xylene	1	2	1
MEK	1	2	1
Deionized Water	1	1	1
Dimethylsulfoxide (DMSO)	1	1	1
3% Alconox® Detergent	1	1	1
50% Acetic Acid	1	1	1
10% Sulfuric Acid	1	1	1
10% Clorox® Bleach Solution	1	1	1
10% Sodium Hydroxide	1	1	1

Rating scale:

1=no visible effect

2=slight smear or print removal or adhesive oozing, detectable but minimal

3=moderate smear or print removal or adhesive oozing

4=severe smear or print removal or adhesive oozing

5=complete smear, print removal or topcoat removal (delamination) or adhesive oozing

PERFORMANCE PROPERTIES - Slide Staining Test

Samples of B8505 printed with the Brady Series R4300 ribbon were laminated to glass microscope slides. These slides were placed in the Leica AutoStainer XL automated slide stainer. The slides were processed using the H&E (hematoxinilin and eosin) staining process.

Labels were adhered to the following brands of slides:

Cole-Parmer® - precleaned frosted, precleaned Superfrost® and plain precleaned Superfrost®

Fisher Scientific - precleaned frosted beveled

Erie Scientific - precleaned Superfrost® plus

Mercedes Medical - (precleaned, beveled edge, double frost)

Gold Seal Products® - Gold Seal® precleaned

REAGENT	STATION	STEP	DURATION (minutes)
None	Oven	1	10:00
Xylene	1	2	2:00
Xylene	2	3	2:00
100% denatured ethanol	3	4	2:00
100% denatured ethanol	4	5	2:00
70% denatured ethanol	5	6	1:00
Wash (tap water)	Wash 1	7	2:00
Hematoxinilin stain (Harris formula modified, supplied by Ricca Chemical Company)	6	8	5:00
Wash (tap water)	Wash 2	9	2:00
Acid Alcohol (mixture of 1.25% of concentrated HCl, 69.26% of ethanol and 29.49% of DIH ₂ O)	7	10	0:02
Wash (tap water)	Wash 3	11	3:00
Scott's bluing reagent (supplied by Fisher Scientific)	8	12	3:00
Wash (tap water)	Wash 4	13	3:00
Eosin Y stain (Stock formula, 1% alcoholic solution supplied by Ricca Chemical Company)	14	14	2:00
95% denatured ethanol	15	15	0:30
100% denatured ethanol	16	16	2:00
100% denatured ethanol	17	17	2:00
100% denatured ethanol	18	18	2:00
Xylene	Exit	19	30:00

Test results: All the labels remained adhered to all types of slides through the process. Print was not affected. Label surface was slightly pink after the process.

Shelf Life:

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:

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

Alconox® is a registered trademark of Alconox Co.

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Cole-Parmer® is a registered trademark of the Cole-Parmer Instrument Company

Gold Seal® is a registered trademark of Erie Scientific Company

Polyken™ is trademark of Testing Machines Inc.

Superfrost® is a registered trademark of Erie Scientific Company

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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