

BRADY B-482 TISSUE CASSETTE LABEL

TDS No. B-482
 Effective Date: 06/29/2011

Description:

GENERAL

Print Technology: Thermal Transfer
Material Type: Polyester
Finish: Matte white
Adhesive: Permanent acrylic

APPLICATIONS

Tissue cassette labeling and identification in conjunction with the Brady BSP™31 Label Attachment System.

RECOMMENDED RIBBONS

Brady Series R6400

REGULATORY

Brady B-482 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

SPECIAL FEATURES

B-482, when printed with the R6400 thermal transfer ribbon, is designed for tissue cassette identification through processing when used with the Brady BSP™31 Label Attachment System as a supplemental attachment. It has superior resistance to processing fluids and conditions, retaining legibility including 2D barcoding, and complements the performance of the B-481 StainerBondz™ slide labels when used as part of a complete histology labeling system.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Total (excluding liner)	0.0046 inches (0.117 mm)
Adhesion to Stainless steel	20 minute dwell 24 hour dwell	41 oz/inch (45 N/100mm) 56 oz/inch (61 N/100mm)

PERFORMANCE PROPERTIES-CHEMICAL RESISTANCE

B-482 samples were printed with R6400 Series ribbon on the Bradyprinter™ THT Model IP300 thermal transfer printer. Printed samples were adhered to tissue cassettes and staked using the Brady BSP™31 Label Attachment System. 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. The linear bar code was then scanned for readability. Testing was conducted at room temperature with the exception of the paraffin exposure, which was melted and held at 60°C.

CHEMICAL REAGENT	EFFECT TO PRINT/TOPCOAT WITHOUT RUB	EFFECT TO PRINT/TOPCOAT WITH RUB	LINEAR BAR CODE SCAN	EFFECT TO ADHESIVE
Acetone	1	1	Pass	1
Ethanol	1	1	Pass	1
Isopropanol	1	1	Pass	1
Methanol	1	1	Pass	1
Toluene	1	1	Pass	1
Formula 83™	1	1	Pass	1
Xylene	1	1	Pass	1
60°C. Paraffin (TissuePrep® T565)	1	1	Pass	1
Deionized Water	1	1	Pass	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- TISSUE PROCESSING

B-482 samples were printed with R6400 Series ribbon on the Bradyprinter™ THT Model IP300 thermal transfer printer. Printed samples were laminated to tissue cassettes and staked using the Brady BSP™31 Label Attachment System. These cassettes were placed in the Tissue-Tek® V.I.P.™ 3000 Vacuum Infiltration Processor. The tissue cassettes were processed using the following schedules (standard or fast). After processing the tissue cassettes were embedded with wax and trimmed (either mechanically or with a Shandon PARA TRIMMER®).

STANDARD SCHEDULE

STATION	REAGENT	CYCLE TIME	TEMPERATURE	PRESSURE/ VACUUM
1	Water	1 hour	35°C	ON
2	Water	1 hour	35°C	ON
3	70% Ethanol	1 hour	35°C	ON
4	80% Ethanol	1 hour	35°C	ON
5	95% Ethanol	1 hour	35°C	ON
6	95% Ethanol	1 hour	35°C	ON
7	100% Ethanol	1 hour	35°C	ON
8	100% Ethanol	1 hour	35°C	ON
9	Xylene	1 hour	35°C	ON
10	Xylene	1 hour	35°C	ON
11	Paraffin(TissuePrep® T565)	1 hour	60°C	ON
12	Paraffin(TissuePrep® T565)	1 hour	60°C	ON
13	Paraffin(TissuePrep® T565)	1 hour	60°C	ON

FAST SCHEDULE

STATION	REAGENT	CYCLE TIME	TEMPERATURE	PRESSURE/ VACUUM
1	Water	17 minutes	45°C	ON
2	Water	17 minutes	45°C	ON
3	70% Ethanol	17 minutes	45°C	ON
4	80% Ethanol	17 minutes	45°C	ON
5	95% Ethanol	17 minutes	45°C	ON
6	95% Ethanol	17 minutes	45°C	ON
7	100% Ethanol	17 minutes	45°C	ON
8	100% Ethanol	17 minutes	45°C	ON
9	Xylene	17 minutes	45°C	ON
10	Xylene	17 minutes	45°C	ON
11	Paraffin(TissuePrep® T565)	17 minutes	60°C	ON
12	Paraffin(TissuePrep® T565)	17 minutes	60°C	ON
13	Paraffin(TissuePrep® T565)	17 minutes	60°C	ON

Test Results: All the labels remain attached to the cassettes throughout processing, trimming, and embedding. Print was unaffected and human readable. 2D codes as well as linear bar codes were all machine readable.

* B-482 is not recommended for use in conditions where both high temperature and high humidity greater than 95°F (35°C) and 80% relative humidity are present.

* B-482 is not recommended for use in tissue processing applications that use microwave technology.

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.

Processed cassettes labeled with B-482 should be stored in an environment below 80°F(27°C) and 60% RH.

Trademarks:

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

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Formula 83™ is a trademark of CBG Biotech Ltd.

Para Trimmer® is a registered trademark of Shandon, Inc.

Tissue-Tek® V.I.P™ is a registered trademark of Sakura Finetek

Tissue-Tek® is a registered trademark of Sakura Finetek

TissuePrep® is a registered trademark of Fisher Scientific Company Corp.

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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