

**BRADY B-111 SELF-WOUND POLYESTER OVERLAMINATE**

TDS No. B-111  
Effective Date: 01/11/2019

**Description:**

**GENERAL**

**Print Technology:** n/a

**Material Type:** Clear Polyester

**Finish:** Glossy Clear

**Adhesive:** Acrylic

**APPLICATIONS**

Brady B-111 is used as a protective overlaminate. B-111 in a 2-ply put up can be used for paint masking or other similar applications in which the topside overlaminate is removed and the bottomside overlaminate remains.

**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](http://www.bradycanada.ca/weee-rohs)

In Europe: [www.bradyeurope.com/rohs](http://www.bradyeurope.com/rohs)

In Japan: [www.brady.co.jp/products/labelsuse/rohs](http://www.brady.co.jp/products/labelsuse/rohs)

All other regions: [www.bradyid.com/weee-rohs](http://www.bradyid.com/weee-rohs)

**SPECIAL FEATURES**

B-111 is supplied in self-wound format to be used with Brady Protector™ laminator which prints, overlaminates, and diecuts labels. B-111 has a topside silicone release which provides easy unwinding of self-wound rolls.

Brady B-111 is recommended for use with most standard Brady label materials. B-111 has excellent clarity, as well as very good temperature resistance, chemical resistance and abrasion resistance.

**Details:**

| PHYSICAL PROPERTIES   | TEST METHODS   | AVERAGE RESULTS  |
|---|--|--|
| Thickness   | ASTM D 1000<br>-Film<br>-Adhesive<br>-Total                                    | 0.0010 inch (0.025 mm)<br>0.0010 inch (0.025 mm)<br>0.0020 inch (0.050 mm) |
| Adhesion to:<br>-Stainless Steel                                    | ASTM D 1000<br>20 minute dwell   | 24 oz/in (26 N/100 mm)   |
| Tack  | ASTM D 2979<br>Polyken™ Probe Tack<br>0.5 second dwell                         | 17.6 oz (500g)   |
| Release force of B-111 adhesive from B-111 topside silicone release | PSTC-1   | 0.39 oz/in (11 grams/25.4 mm)  |
| Tensile Strength and Elongation                                     | ASTM D 1000<br>-Machine Direction  | 26 lbs/in (455 N/100 mm), 110%   |
| Abrasion Test   | Taber Abraser, CS-17 grinding wheels, 1000 g/arm (Fed. Std. 191A, Method 5306) | Material worn through in one or more spots at 700-1000 cycles              |
| Application Temperature   | Lower application temperature  | 40°F (5°C)   |

B-111 samples for Performance Properties were tested applied directly to aluminum panels and overlaminated over Brady B-423 white polyester. Samples allowed to dwell 24 hours at room temperature prior to testing.

| PERFORMANCE PROPERTIES             | TEST METHODS                    | TYPICAL RESULTS  |
|------------------------------------|---------------------------------|--|
| Long Term High Service Temperature | 30 days at various temperatures | No visible effect at 100°C. Very slight discoloration at 110°C. Slight discoloration and blistering at 130°C but still functional. |
| Long Term Low Service Temperature  | 30 days at -94°F (-70°C)        | No visible effect at -70°C   |

|                       |  |   |
|-----------------------|--|---|
| Humidity Resistance   | 30 days at 100°F (37°C), 95% R.H.  | No visible effect   |
| UV Light Resistance   | 30 days in UV Sunlighter™ 100  | No visible effect   |
| Weatherability        | ASTM G155, Cycle 1<br>30 days in Xenon Arc Weatherability                                    | Very Slight discoloration   |
| Salt Fog Resistance   | ASTM B 117<br>30 days in 5% salt fog solution chamber  | No visible effect   |
| Paint Mask Simulation | 1 hour at 392°F (200°C)<br><br>Heated in 2 ply put-up and then topside overlaminated removed | No visible effect at 320°F (160°C). 2 ply paint mask performed acceptably up to 392°F (200°C) but slight film shrinkage occurred. |

|                             |                            |
|-----------------------------|----------------------------|
| <b>PERFORMANCE PROPERTY</b> | <b>CHEMICAL RESISTANCE</b> |
|-----------------------------|----------------------------|

Samples were tested overlaminated over Brady B-423 white polyester. Samples allowed to dwell 24 hours at room temperature prior to testing. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. Except where noted otherwise, testing was conducted at room temperature.

| CHEMICAL REAGENT                      | SUBJECTIVE OBSERVATION OF VISUAL CHANGE |
|---------------------------------------|---|
| Methyl Ethyl Ketone                   | Slight adhesive ooze                    |
| 1,1,1-Trichloroethane                 | Slight adhesive ooze                    |
| Isopropyl Alcohol                     | No visible effect                       |
| Gasoline                              | Severe adhesive ooze                    |
| SAE 20 WT Oil @70°C                   | No visible effect                       |
| Brake Fluid                           | No visible effect                       |
| Ethylene Glycol                       | No visible effect                       |
| Northwoods™ Buzz Saw Citrus Degreaser | No visible effect                       |
| Speedi Kut Cutting Oil 332            | No visible effect                       |
| Skydrol® 500B-4                       | Slight adhesive ooze                    |
| JP-8 Jet Fuel                         | No visible effect                       |
| 5% Alconox® Detergent                 | No visible effect                       |

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.  
 Brady Protector™ is a trademark of Brady Worldwide, Inc.  
 Northwoods™ is a trademark of the Superior Chemical Corporation.  
 Polyken™ is a trademark of Testing Machines Inc.  
 Skydrol® is a registered trademark of the Monsanto Company  
 Sunlighter™ is a trademark of the Test Lab Apparatus 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.)

**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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

**WARRANTY**

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