

**BRADY B-813 STANDARD DIRECT THERMAL PERMANENT PAPER**

TDS No. B-813  
Effective Date: 01/29/2019

**Description:**

**GENERAL**

**Print Technology:** Direct Thermal

**Material Type:** Paper

**Finish:** Matte

**Adhesive:** Permanent Acrylic

**APPLICATIONS**

General purpose labeling applications requiring a ribbonless, low cost label material.  
Not recommended for high heat/humidity or outdoor applications.

**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)

**Details:**

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 Total (excluding liner)	0.004 inch (0.1 mm)
Adhesion to: -Stainless Steel -ABS	ASTM D 1000 20 minute dwell 24 hour dwell	Destroys upon removal after 20 minutes and 24 hour dwell
-Powder Coated Paint	20 minute dwell 24 hour dwell	Destroys upon removal after 20 minutes and 24 hour dwell
-Glass	20 minute dwell 24 hour dwell	Destroys upon removal after 20 minutes and 24 hour dwell
	20 minute dwell 24 hour dwell	Destroys upon removal after 20 minutes and 24 hour dwell
Tack	ASTM D 2979 Polyken™ Probe Tack 0.5 second dwell	38 oz (1076 g)

Performance properties were tested on B-813 printed with a direct thermal printer. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
Long Term High Service Temperature	30 days at 140°F (60°C)	Slight discoloration to label, moderate discoloration around edges Print still legible
Long Term Low Service Temperature	30 days at -40°F (-40°C)	No visible effect to label or print
Humidity Resistance	30 days at 100°F (37°C) and 95% R.H.	Moderate discoloration to label and severe fade to print, barely legible

Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 250 g/arm, 100 cycles (Fed. Std. 191A, Method 5306)	Moderate effect to label Print still legible
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**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.)  
 BradyPrinter™ is a trademark of Brady Worldwide, Inc.  
 Polyken™ is a trademark of Testing Machines Inc.  
 S. I.: International System of Units

**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**

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

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