

BRADY B-813 STANDARD DIRECT THERMAL PERMANENT PAPER

TDS No. B-813
Effective Date: 08/21/2014

Description:

Print Technology: Direct Thermal
Material Type: Paper
Finish: White
Adhesive: Permanent Acrylic

APPLICATIONS

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

RECOMMENDED PRINTERS

BBP11, BP-PR Plus 300, IP300 & BBP81

REGULATORY APPROVALS

BRADY B-813 is RoHS compliant to 2002/95/EC (RoHS) and Annex II of Directive 2011/65/EC (RoHS 2) and is REACH compliant according to Regulation (EC) No. 1907/2006 & Annex XVII.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000	0.004 inch (0.1 mm)
Adhesion to: -Stainless Steel -ABS -Powder Coated Paint -Glass	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	Destroys upon removal after 20 minutes and 24 hour dwell Destroys upon removal after 20 minutes and 24 hour dwell Destroys upon removal after 20 minutes and 24 hour dwell Destroys upon removal after 20 minutes and 24 hour dwell
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	38 oz (1076 g)

Performance properties tested on B-813 printed with a direct thermal ready BradyPrinter™ 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

Product testing, and history of similar products, support a customer performance expectation of at least **one year 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 degrees C) and 60% RH. 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.

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.

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