

**BRADY B-6425 MATTE WHITE POLYPROPYLENE LABEL STOCK**

TDS No. B-6425  
Effective Date: 03/19/2019

**Description:**

**GENERAL**

**Material Type:** White Polypropylene

**Finish:** Matte

**Adhesive:** Permanent

**RECOMMENDED RIBBONS**

Brady Series R4900

Brady Series R6000 Halogen Free

Brady Series R7962

**APPLICATIONS**

Wire and cable marking

Not suitable for long term outdoor use

**REGULATORY APPROVAL**

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 METHOD	TYPICAL RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total (excluding liner)	0.0028 inch (0.072 mm) 0.0009 inch (0.023 mm) 0.0037 inch (0.095 mm)
Adhesion @ 180° to:	ASTM D1000	
-Stainless Steel	20 minute dwell 24 hour dwell	46 oz/in 53 oz/in
-Polypropylene (PP)	20 minute dwell 24 hour dwell	40 oz/in 46 oz/in
-Textured ABS	20 minute dwell 24 hour dwell	13 oz/in 19 oz/in
-Polyethylene (HDPE)	20 minute dwell 24 hour dwell	31 oz/in 33 oz/in
Tensile	ASTM D1000 - Machine	700 N/100mm
Elongation	ASTM D1000 - Machine	140%

Samples were printed with the Brady Series R4900 and the Brady Series R7962 ribbons. Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to various exposures.

PERFORMANCE (AGING) PROPERTIES	TEST METHOD	TYPICAL RESULTS
Humidity Resistance	37°C, 95% RH for 1000 hours	No visible effect. Label remained functional.
High Temperature Resistance	100°C for 1000 hours in air oven	Slight yellowing of label surface. Label remained functional.
	80°C for 1000 hours in air oven	No visible effect. Label remained functional.

Low Temperature Resistance	-40°C for 1000 hours	No visible effect. Label remained functional.
UV Resistance	ASTM G154 UV exposure for 1000 hours	Label surface showed degradation but print remained legible.
Weathering Resistance	ASTM G155 Exposure for 1000 hours	Label shrinkage observed.

Samples were printed with the Brady Series R6000 Halogen Free ribbon. Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to various exposures.

PROPERTIES	TEST METHOD	TYPICAL RESULTS
Humidity Resistance	37°C, 95% RH for 1000 hours	No visible effect. Label remained functional.
High Temperature Resistance	100°C for 1000 hours in air oven	No visible effect. Label remained functional.
	80°C for 1000 hours in air oven	No visible effect. Label remained functional.
Low Temperature Resistance	-40°C for 1000 hours	No visible effect. Label remained functional.
UV Resistance	ASTM G154 UV exposure for 1000 hours	Label surface showed degradation but print remained legible
Weathering Resistance	ASTM G155 Exposure for 1000 hours	Label surface showed slight degradation but print remained legible.

Samples were printed with the Brady Series R4900 and the Brady Series R7962 ribbons. Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 15-minute immersion in specified test fluid. After immersion, the samples were removed from the test fluid and the printed image was rubbed 10 times with a cotton swab saturated with the test fluid. A rating scale of 1 – 5 is used in the table below to show the print quality of the samples tested upon exposure to different chemicals.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE			
	R4900		R7962	
	WITHOUT RUB	WITH RUB	WITHOUT RUB	WITH RUB
Isopropyl alcohol (IPA)	1	5	1	5
Hexane	1	1	1	1
Heptane	1	1	1	1
Toluene	1	5	1	5
Acetone	1	5	1	5
Gasoline	1	5	1	5
Deionised water	1	1	1	1
Mineral spirit	1	1	1	1
10% sodium hydroxide	1	1	1	1
10% sulphuric acid	1	1	1	1
Ethanol	1	5	1	5

Samples were printed with the Brady Series R6000 Halogen Free ribbon. Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 15-minute immersion in specified test fluid. After immersion, the sample were removed from the test fluid and the printed image was rubbed 10 times with a cotton swab saturated with the test fluid. A rating scale of 1 – 5 is used in the table below to show the print quality of the samples tested upon exposure to different chemicals.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	R6000 Halogen Free	
	WITHOUT RUB	WITH RUB
Isopropyl alcohol (IPA)	1	5
Hexane	1	1
Heptane	1	1
Toluene	1	5
Acetone	1	5
Gasoline	1	5
Deionised water	1	1
Mineral spirit	1	1
10% sodium hydroxide	1	1
10% sulphuric acid	1	1
Ethanol	1	5

**Rating Scale:**

- 1= no visible effect
- 2= slight smear or print removal, detectable but minimal smear
- 3= moderate smear or print removal (print still legible)
- 4= severe smear or print removal (print illegible or just barely legible)
- 5= complete print and/or topcoat removal
- NP= print removed prior to rub

**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.)

**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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