

**BRADY B-2618 AQUEOUS INKJET PRINTABLE MATTE WHITE POLYESTER LABEL STOCK**

TDS No. B-2618  
Effective Date: 02/21/2025

**Description:**

**GENERAL**

Print Technology: Aqueous Inkjet  
Material Type: White polyester  
Finish: Matte  
Adhesive: Permanent Acrylic

**APPLICATIONS**

Designed for applications such as rating plates that utilize high quality/density alphanumeric, barcodes and graphics.

**RECOMMENDED PRINTERS/INKS**

J2000: BradyJet™ J20 Full Color Ink Cartridge; cyan, magenta, and yellow  
J4000: BradyJet™ J40 Full Color Ink Cartridge; cyan, magenta, and yellow

**REGULATORY/AGENCY APPROVALS**

**UL:** B-2618 is a UL Recognized Component when printed with the Brady J20 and J40 CMY inks See UL file MH17154 for specific details. UL information can be accessed on-line at UL.com in the UL Product iQ area.

**cUL:** B-2618 is a cUL Recognized Component when printed with the Brady J20 and J40 CMY inks See UL file PGJ18.MH17154 for specific details. UL information can be accessed on-line at UL.com in the UL Product iQ area.

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-2618 is made with an environmentally friendly film which contains at least 25% recycled PET.

**Details:**

<b>PHYSICAL PROPERTIES</b>	<b>TEST METHODS</b>	<b>AVERAGE RESULTS</b>
Thickness	ASTM D 1000 -Substrate -Adhesive -Total (excluding liner)	0.0035 inch (0.0889 mm) 0.0009inch (0.0229 mm) 0.0044 inch (0.1118 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	34 oz/inch (37 N/100 mm) 39 oz/inch (43 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	30 oz/inch (33 N/100 mm) 34 oz/inch (37 N/100 mm)

Performance properties tested on B-2618 printed with the Brady J20 and J40 CMY inks. Printed samples were

laminated onto aluminum panels and allowed to dwell 24 hours before exposure to the indicated environments. Unless noted, results are the same for both inks.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
Short Term High Service Temperature	5 minutes at various temperatures	No visible effect to label at 180°C. Label shrinkage at 210°C;
High Service Temperature	30 days at various temperatures	No visible effect to label at 100°C. Slight discoloration at 120°C; Severe yellowing at 145°C
Low Service Temperature	30 days at -40°C	No visible effect
Humidity Resistance	30 days at 100°F (38°C) and 95% relative humidity.	No visible effect
UV Light Resistance	ASTM G155, Cycle 1 (no spray) 30 days in Xenon test chamber	Minimal ink fade after 30 days
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect
Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect
Abrasion Resistance	Taber Abraser, CS10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306)	Print legible after 150 cycles

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with the Brady J20 and J40 CMY inks. Samples were laminated onto aluminum or polypropylene (10% Sodium hydroxide, Northwoods Buzz Saw degreaser, 10% Sulfuric acid solution) panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 30 minute immersions in the specified test fluid. After immersion, the samples were removed from the test fluid, and the printed image rubbed 10 times with a cotton swab saturated with the test fluid. The rating scale below shows the effect on the quality of the print for each sample.

Chemical Reagent	SUBJECTIVE OBSERVATION OF VISUAL CHANGE				
	Effect to Label Stock	Brady J20 CMY Inks		Brady J40 CMY Inks	
		Without Rub	With Rub	Without Rub	With Rub
Methyl Ethyl Ketone	1	4	5	4	5
Isopropyl Alcohol	1	1	1	1	1
Mineral Spirits	1	1	1	1	1
SAE 20 WT Oil @ 70°C	1	1	1	1	1
Mil 5606 Oil	1	2 - coating discoloration	1	2 - coating discoloration	1
Speedi Kut Cutting Oil 332	1	1	1	1	1

Gasoline	1	1	1	1	1
Rust Veto® 342	1	2 - coating discoloration	1	2 - coating discoloration	1
Northwoods™ Buzz Saw Degreaser	1	1	1	1	1
Deionized Water	1	1	1	1	1
5% Salt Solution	1	1	1	1	1
3% Alconox® Detergent	1	1	1	1	1
10% Sodium Hydroxide Solution	1	1	1	1	1
10% Sulfuric Acid Solution	1	1	1	1	1

#### 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

#### 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:

Alconox® is a registered trademark of Alconox Co.  
Northwoods™ is a trademark of the Superior Chemical Corporation  
Polyken™ is a trademark of Testing Machines Inc.  
Rust Veto® is a registered trademark of the E.F. Houghton & Co.  
Sunlighter™ is a trademark of the Test Lab Apparatus Company ASTM:  
American Society for Testing and Materials (U.S.A.)  
SAE: Society of Automotive Engineers (U.S.A.)  
UL: Underwriters Laboratories Inc. (U.S.A.)  
cUL: Underwriters Laboratories Inc. (U.S.A.)  
All S.I. Units (metric) are mathematically derived from the U.S. Conventional 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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