

BRADY B-488 MATTE WHITE POLYESTER LABEL STOCK

TDS No. B-488
Effective Date: 12/15/2020

Description:

GENERAL

Print Technology: Thermal Transfer

Material Type: Polyester

Finish: Matte

Adhesive: Permanent acrylic

APPLICATIONS

General and bar code labeling

RECOMMENDED RIBBONS

Brady Series R4300

REGULATORY/AGENCY APPROVALS

UL: B-488 is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with the Brady Series R4300. See UL file MH17154 for specific details. UL information can be accessed online 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

In Europe: www.bradyeurope.com/rohs

In Japan: www.brady.co.jp/products/labelsuse/rohs

All other regions: www.bradyid.com/weee-rohs

SPECIAL FEATURES

B-488 is designed to withstand numerous solvents and variable temperatures when applied to various surfaces including stainless steel and polypropylene.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total (excluding liner)	0.0027 inch (0.0685 mm) 0.0010 inch (0.0254 mm) 0.0037 inch (0.0939 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	41 oz/in (44.9 N/100 mm) 45 oz/in (52.5 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	27 oz/in (29.6 N/100 mm) 30 oz/in (32.8 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	8 oz/in (9.9 N/100 mm) 9 oz/in (10.9 N/100 mm)
-FR-4 Epoxy PCB Material	20 minute dwell 24 hour dwell	35 oz/in (38.3 N/100 mm) 45 oz/in (51.4 N/100 mm)

Performance properties were tested on B-488 printed with the Brady Series R4300 ribbon. Printed samples of B-488 were laminated to aluminum before exposure to the indicated environmental condition.

PERFORMANCE PROPERTIES	TEST METHODS	EFFECT TO TAPE	EFFECT TO PRINT
Long Term High Service Temperature	30 days at 320°F (160°C)	No visible effect at 145°C, slight yellowing at 160°C	No visible effect
Long Term Low Service Temperature	30 days at -40°F (-40°C)	No visible effect	No visible effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect	No visible effect
UV Light Resistance	ASTM G155, Cycle 1 (No Spray) 30 days in Xenon Test Chamber	No visible effect	Very slight discoloration
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weather-Ometer®	No visible effect	No visible effect
Salt Fog Resistance	ASTM B 117 30 days in 5% Salt Fog Chamber	No visible effect	No visible effect
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm, 100 cycles (Fed. Std. 191A, Method 5306)	No visible effect	Print still legible after 100 cycles

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with the Brady Series R4300 ribbon, laminated to flat aluminum panels and allowed to dwell 24 hours prior to test. Testing was conducted at room temperature. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical followed by 30 minute recovery periods. After the final immersion the flat samples were rubbed 10 times with a cotton swab saturated with the test fluid.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	EFFECT TO LABEL STOCK	EFFECT TO PRINT	EFFECT TO PRINT WITH RUB
Methyl Ethyl Ketone	No visible effect	1	2
Toluene	No visible effect	1	3
Isopropyl Alcohol	No visible effect	1	1
Mineral Spirits	No visible effect	1	2
JP-8 Jet Fuel	No visible effect	1	3
ASTM #3 Oil	No visible effect	1	1
Mil 5606 Oil	No visible effect	1	1
Skydrol® 500B-4	No visible effect	1	2
Super Agitene®	No visible effect	1	1
Deionized Water	No visible effect	1	1
3% Alconox® Detergent	No visible effect	1	1

10% Sodium Hydroxide Solution	No visible effect	1	1
10% Sulfuric Acid Solution	No visible effect	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
- 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:

- Alconox® is a registered trademark of Alconox Co.
- Skydrol® is a registered trademark of the Monsanto Company
- Super Agitene® is a registered trademark of Graymills Corporation
- Weather-Ometer® is a registered trademark of Atlas Material Testing Technology
- ASTM: American Society for Testing and Materials (U.S.A.)
- CSA: Canadian Standards Association
- UL: 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.

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