

B-8488 MATTE WHITE POLYESTER LABEL STOCK

TDS No. B-8488
Effective Date: 02/04/2019

Description:

GENERAL

Print Technology: Thermal Transfer

Materials Type: Polyester

Finish: Matte White

Adhesive: Permanent Acrylic

RECOMMENDED RIBBONS

Brady Series R6000 Halogen Free

Brady Series R4900

REGULATORY/ AGENCY APPROVALS

UL: B-8488 label is a UL recognized component to UL969 Labeling and Marking Standard when printed with the Brady Series R8964 or the Brady Series R4900 ribbons. See UL files MH25991 and MH16386 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

In Europe: www.bradyeurope.com/rohs

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

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

SPECIAL FEATURES

B-8488 *adhesive* compositionally meets the requirement of US FDA 21 CFR 175.105 (Adhesive) for use in food packaging.

Details:

| PHYSICAL PROPERTIES | TEST METHOD | TYPICAL RESULTS |
|---------------------|----------------------------------|--|
| Thickness | ASTM D1000 | |
| | Substrate | 0.075 mm (0.003 in) |
| | Adhesive | 0.055 mm (0.002 in) |
| | Total (excluding liner) | 0.130 mm (0.005 in) |
| Peel Adhesion to: | ASTM D1000 | |
| - Stainless Steel | 20 minute dwell 24 hour dwell | 48 N/100mm (45 oz/in) 68 N/100mm (61 oz/in) |

Performance properties tested on B-8488 were printed with the Brady Series R6000 Halogen Free ribbon. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environment. Unless noted, results are the same for the Brady Series R4900 ribbon.

| PROPERTIES | TEST METHOD | TYPICAL RESULTS |
|-------------------------------------|--------------------------------------|---|
| Short Term High Service Temperature | 2 hours at 120°C | No visible change |
| | 2 hours at 150°C | No visible change |
| | 2 hours at 170°C | No visible change |
| Long Term High Service Temperature | 30 days at 100 °C | No visible change |
| Long Term Low Service Temperature | 30 days at -40 °C | No visible change |
| Humidity Resistance | 30 days at 37 °C/ 95% RH | No visible change |
| UV Resistance | ASTM G154 30 days exposure in QUV | Slight discolouration of label. No print removal observed. Label remained functional. |

| | | |
|----------------|---|---|
| Weatherability | ASTM G155 30 days exposure in Xenon Arc Weatherometer | Slight discolouration of label. No print removal observed. Label remained functional. |
|----------------|---|---|

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 samples were removed from the test fluid and the printed image was rubbed 10 times with a cotton swab saturated with the test fluid. Visual observations were carried out and 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 | | |
|-------------------------|---|--------------------------|----------|
| | EFFECTS TO MATERIAL | EFFECTS TO PRINTED IMAGE | |
| | | R6000 Halogen Free | |
| | | WITHOUT RUB | WITH RUB |
| Isopropyl alcohol (IPA) | No visible effect | 1 | 1 |
| Toluene | No visible effect | 1 | 5 |
| Gasoline | No visible effect | 1 | 5 |
| Mineral Spirit | No visible effect | 1 | 1 |
| Hexane | No visible effect | 1 | 1 |
| BIOACT EC7 | No visible effect | 1 | 2 - 3 |
| Deionised water | No visible effect | 1 | 1 |
| 3% Alconox | No visible effect | 1 | 1 |
| Methylethylketone (MEK) | No visible effect | 1 | 5 |
| 10% Sulphuric acid | No visible effect | 1 | 1 |
| 10% Sodium hydroxide | No visible effect | 1 | 1 |
| SAE 40 | No visible effect | 1 | 1 |

Rating scale:

- 1 = No visible effect
- 2 = Slight print removal
- 3 = Moderate print removal
- 4 = Severe print removal
- 5 = Complete print 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:

ASTM: American Society for Testing and Materials (U.S.A.)
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BIOACT® is a registered trademark of Petroferm, Inc.
BradyPrinter™ is a trademark of Brady Worldwide, Inc.
EC-7™ is a trademark of Petroferm Inc.

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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