

B-8488 MATTE WHITE POLYESTER LABEL STOCK

TDS No. B-8488
Effective Date: 10/02/2009

Description:

GENERAL

Print Technology: Thermal Transfer

Materials Type: Polyester

Finish: Matte White

Adhesive: Permanent Acrylic

RECOMMENDED RIBBONS

Brady Series R6000

Brady Series R4900

REGULATORY/ AGENCY APPROVALS

B-8488 label is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

B-8488 label is an UL recognised component when printed with R6000 or R4900 as per UL969 Labeling and Marking Standard. See File # MH25991 and MH16386 for specific details (files are available for online viewing in *Certifications* found on UL website www.ul.com).

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 - Total - Facestock - Adhesive | 0.075 mm (0.003 in) 0.055 mm (0.002 in) 0.020 mm (0.001 in) |
| Peel Adhesion to: - Stainless Steel | ASTM D1000 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 Series R6000 ribbon using BradyPrinterä THT Model 600X-Plus Thermal Transfer printer. 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 Series R4900.

| 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 Series R6000 ribbons using a BradyPrinterä 600X-Plus thermal transfer printer. 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 | |
| | | 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**

Trademarks:

ASTM: American Society for Testing and Materials (U.S.A.)
 Alconox® is a registered trademark of Alconox Co.
 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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