

**BRADY B-7697 POLYESTER TAG**

TDS No. B-7697  
Effective Date: 30/07/2019

**Description:**

**GENERAL**

**Print Technology:** Thermal transfer  
**Material Type:** Rigid polyester tag  
**Finish:** 2-sided matt white  
**Adhesive:** -

**APPLICATIONS**

Manual marking for electrical cable and wires of various diameters.  
B-7697 inserts, supplied in roll format to be used in combination with Brady AC-carriers for identification of cables.

**RECOMMENDED RIBBONS**

Brady series R-6200, R-7961 and R-4300

**REGULATORY/AGENCY APPROVALS**

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**

Details:

| PERFORMANCE PROPERTIES   | TEST METHOD  | TYPICAL RESULTS   |
|--------------------------|--|---|
| Thickness                | ASTM D 1000  | 350 µm  |
| Tensile Strength         | ASTM D 882-83  | MD : 957 N  |
| Elongation at break      | ASTM D 882-83  | MD: 87%   |
| Shrinkage                | 5 minutes at 150°C, used length: 297 mm                            | MD < 1.0%<br>TD < 0.3%  |
| High service temperature | 30 days at 120°C (248°F)   | No visible effect on the THT-printing.<br>Very slightly yellowing |
| Low service temperature  | 30 days at -40°C ( -40°F )   | No visible effect   |
| Humidity                 | 30 days at 37°C (99°F) /95% RH                                     | No visible effect   |
| UV-light Resistance      | 30 days in XenonARC Weatherometer<br>ASTM G155, cycle 1 (no spray) | No visible effect on the THT-printing<br>Very slightly yellowing  |

|                       |  |   |
|-----------------------|--|---|
| Weatherability        | 30 days in QUV<br>ASTM G154 cycle 1  | No visible effect on the THT-printing.<br>Very slightly yellowing                           |
| Scratch Resistance    | 10 times scratching with Erichsen hardness pen with a pressure of 10N              | Smearing of the THT-printing with R-4300.<br>No visible effect on other ribbons             |
| Abrasion Resistance   | Taber Abraser:<br>100 cycles with CS-10 wheels and an arm-weight of 1kg            | Smearing and smudging with R-4300<br>Slight Fading with R-6200<br>Slight Fading with R-7961 |
| Crockmeter Resistance | 100 times rubbing with dry cloth<br>100 times rubbing with cloth immersed in water | No visible effect<br>No visible effect  |

|                             |                            |
|-----------------------------|----------------------------|
| <b>PERFORMANCE PROPERTY</b> | <b>CHEMICAL RESISTANCE</b> |
|-----------------------------|----------------------------|

White B-7697 Samples were printed with the ribbon R-4300, R-6200 and R-7961, allowed to dwell 24 hours prior to test. Testing consisted of five cycles of 10 minute immersions in the specified chemicals followed by 30 minutes recovery periods. After final immersion, samples rubbed 10 times with cotton swab saturated with test fluid. Testing was conducted at room temperature.

| <b>R-4300</b>           |  |  |
|-------------------------|--|--|
| <b>CHEMICAL REAGENT</b> | <b>APPEARANCE OF PRINT WITHOUT RUB</b> | <b>APPEARANCE OF PRINT WITH RUB</b>      |
| Isopropyl Alcohol       | No visible effect                      | Print gone                               |
| Methyl ethyl ketone     | No visible effect                      | Print gone                               |
| De-ionized water        | No visible effect                      | No visible effect                        |
| Alcohol mixture*        | No visible effect                      | Moderate removal of topcoat and printing |
| N-Hexane                | No visible effect                      | Smearing of the printing                 |
| Mil 5606 Oil            | No visible effect                      | No visible effect                        |
| ASTM#3 oil              | No visible effect                      | Slight fading                            |
| Ethanol                 | No visible effect                      | Print gone                               |
| Toluene                 | No visible effect                      | Print gone                               |
| Skydrol® 500B-4         | No visible effect                      | Fading                                   |
| Diesel                  | No visible effect                      | Smearing of the printing                 |
| Gasoline                | No visible effect                      | Severe smearing                          |
| 10% Sulphuric acid      | No visible effect                      | No visible effect                        |
| 10% Salt water solution | No visible effect                      | No visible effect                        |

\*Alcohol mixture is a mixture of 50% ethanol, 30% methanol and 20% distilled water

| <b>R-6200</b>           |  |                                     |
|-------------------------|--|-------------------------------------|
| <b>CHEMICAL REAGENT</b> | <b>APPEARANCE OF PRINT WITHOUT RUB</b> | <b>APPEARANCE OF PRINT WITH RUB</b> |

|                         |                        |  |
|-------------------------|------------------------|--|
| Isopropyl Alcohol       | No visible effect      | Severe fading                            |
| Methyl ethyl ketone     | Printing is dissolving | Print gone                               |
| De-ionized water        | No visible effect      | No visible effect                        |
| Alcohol mixture*        | No visible effect      | Moderate removal of topcoat and printing |
| N-Hexane                | No visible effect      | No visible effect                        |
| Mil 5606 Oil            | No visible effect      | No visible effect                        |
| ASTM#3 oil              | No visible effect      | Severe fading of the printing            |
| Ethanol                 | No visible effect      | Print gone                               |
| Toluene                 | No visible effect      | Print gone                               |
| Skydrol® 500B-4         | No visible effect      | Severe Fading                            |
| Diesel                  | No visible effect      | No visible effect                        |
| Gasoline                | No visible effect      | Slight fading                            |
| 10% Sulphuric acid      | No visible effect      | No visible effect                        |
| 10% Salt water solution | No visible effect      | No visible effect                        |

\*Alcohol mixture is a mixture of 50% ethanol, 30% methanol and 20% distilled water

| <b>R-7961</b>           |  |  |
|-------------------------|--|--|
| <b>CHEMICAL REAGENT</b> | <b>APPEARANCE OF PRINT WITHOUT RUB</b> | <b>APPEARANCE OF PRINT WITH RUB</b>                          |
| Isopropyl Alcohol       | No visible effect                      | Print gone   |
| Methyl ethyl ketone     | Printing is dissolving                 | Print gone   |
| De-ionized water        | No visible effect                      | No visible effect  |
| Alcohol mixture*        | No visible effect                      | Moderate removal of topcoat<br>Severe fading of the printing |
| N-Hexane                | No visible effect                      | No visible effect  |
| Mil 5606 Oil            | No visible effect                      | No visible effect  |
| ASTM#3 oil              | No visible effect                      | Print almost gone  |
| Ethanol                 | No visible effect                      | Print gone   |
| Toluene                 | No visible effect                      | Print gone   |
| Skydrol® 500B-4         | Printing is dissolving                 | Print gone   |
| Diesel                  | No visible effect                      | No visible effect  |
| Gasoline                | No visible effect                      | Severe fading  |
| 10% Sulphuric acid      | No visible effect                      | No visible effect  |
| 10% Salt water solution | No visible effect                      | No visible effect  |

\*Alcohol mixture is a mixture of 50% ethanol, 30% methanol and 20% distilled water

#### **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.)

S.I.: International System of Units

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**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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