

**BRADY B-7537 RIGID PHOTOLUMINESCENT SIGNS**

TDS No. B-7537  
Effective Date: 10/04/2011

**Description:**

Brady B-7537 is a rigid photoluminescent PVC sign. Signs are still visible in case of power failure.

Brady B-7537 is used for exit and directional signs, identification of fire alarms and extinguishers and directional systems for escape or evacuation routes.

Brady B-7537 is available in Red, Green, Blue and Yellow

**Details:**

|                           |
|---------------------------|
| <b>SPECIAL PROPERTIES</b> |
|---------------------------|

The luminance is measured according to the DIN 67510 norm. This norm fixes the minimum requirements to be fulfilled by photoluminescent signs.

|           | <b>LUMINANCE AFTER 10 MINUTES</b> | <b>LUMINANCE AFTER 1 HOUR</b> | <b>DECAY TIME UP TO 0.3 mcd/m<sup>2</sup></b> |
|-----------|-----------------------------------|-------------------------------|---|
| DIN 67510 | 20 mcd/m <sup>2</sup>             | 2.8 mcd/m <sup>2</sup>        | 340 minutes                                   |
| B-7537    | 45 mcd/m <sup>2</sup>             | 6 mcd/m <sup>2</sup>          | 960 minutes                                   |

| <b>PHYSICAL PROPERTIES</b> | <b>TEST METHOD</b>   | <b>AVERAGE RESULTS</b> |
|----------------------------|--|------------------------|
| Thickness                  | PSTC-33  | 1 mm (0.04 inch)       |
| Abrasion resistance        | Method 5306 US Fed. Test Method (CS10 + 250 g)<br>500 Cycles | No Visible Effect      |

| <b>PERFORMANCE PROPERTIES</b> | <b>TEST METHOD</b>                            | <b>OBSERVATION OF VISUAL CHANGE</b>  |
|-------------------------------|---|--|
| Service Temperature           | Minimum Temp.<br>Maximum Temp. (1hour)        | - 30° C<br>80° C   |
| Humidity Resistance           | 90 days in humidity chamber,<br>38°C/95% R.H. | No Visible effect  |
| U.V. Resistance               | 90 days in UV light chamber                   | Moderate yellowing of photoluminescent parts but they remain functional<br>Safety colors remain intact                               |
| Weatherability                | ASTM G 53 (90 days in Q.U.V.)                 | Photoluminescent parts perform weak in low light locations. They're not good visible anymore.<br>Severe fading of the safety colors* |

\* This material is not designed for outdoor use.

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

Testing consisted of five cycles of 10 minutes immersion in the specified chemical reagent followed by 30 minute recovery periods. Cotton swab rub after final immersion.

| <b>CHEMICAL REAGENT</b> | <b>SUBJECTIVE OBSERVATION OF VISUAL CHANGE</b> |                               |
|-------------------------|--|-------------------------------|
|                         | <b>Label Stock</b>                             | <b>Colors (after rubbing)</b> |
| Isopropanol             | N.V.E.   | N.V.E.                        |
| 1,1,1 Trichloroethane   | Photolumcoat dissolved                         | Moderate Fading               |
| Acetone                 | Photolumcoat dissolved                         | Severe fading                 |
| Toluene                 | Photolumcoat dissolved                         | Severe fading                 |
| Alcohol mixture*        | Photolumcoat dissolved                         | N.V.E.                        |

|                       |   |               |
|-----------------------|---|---------------|
| Skydrol® 500B-4       | Photolumcoat slightly dissolved but it remains functional | N.V.E.        |
| Methyl Ethyl Ketone   | Photolumcoat dissolved                                    | Severe fading |
| Ethanol               | Photolumcoat slightly dissolved but it remains functional | Severe fading |
| Gasoline              | N.V.E.  | N.V.E.        |
| Sodium Hydroxide (5%) | N.V.E.  | N.V.E.        |
| Sodium Chloride (5%)  | N.V.E.  | N.V.E.        |
| Diesel                | N.V.E.  | N.V.E.        |
| Sulphuric Acid (10%)  | N.V.E.  | N.V.E.        |
| Water                 | N.V.E.  | N.V.E.        |
| ASTM 3 oil            | N.V.E.  | N.V.E.        |

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **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*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use in their actual applications.

#### Trademarks:

**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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