

**BRADY B-7505 SUBSURFACE PRINTED POLYCARBONATE NAMEPLATES**

TDS No. B-7505

Effective Date: 29/09/2020

**Description:**

**GENERAL**

**Print Technology:** Subsurface printed

**Material Type:** Polycarbonate

**Finish:** Velvet

**Adhesive:** Permanent acrylic adhesive

**APPLICATIONS**

B-7505 is designed for polycarbonate face & nameplates like instructional labels and instrument panel labels. B-7505 is using an all-round adhesive and can be used on metals and low surface energy plastics like polypropylene.

**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)

Details:

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D 1000 - Substrate - Adhesive - Total	250 µm (0.01 inch) 80 µm (0.003 inch) 330 µm (0,013 inch)
Adhesion to: Stainless steel Polypropylene Powder coated panel - smooth	ASTM D 1000 - 24 hour dwell	67 N/100 mm (61 oz/in) 52 N/100 mm (47 oz/in) 60 N/100 mm (55 oz/in)

B-7505 samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at 60°C (140°F)	No visible effect
Low Service Temperature	30 days at -10°C (14°F)	No visible effect
Humidity Resistance	30 days at 37°C (100°F) / 95% relative humidity	No visible effect
UV Light Resistance	30 days in Xenon Test Chamber 0.35 W/m <sup>2</sup> @340 nm	Slight discoloration
Weatherability	30 days in QUV/se ASTM 154 Cycle 1	Slight discoloration
Abrasion Resistance	Taber Abraser, CS10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306)	100 cycles - topside polycarbonate becomes slightly matt, legibility is not affected

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
----------------------	---------------------

Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing.

Rub test : Samples are laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Samples are rubbed 10 times with cotton cloth soaked in test fluid. Testing was conducted at room temperature.

Immersion test : Samples are laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Samples are immersed for 1/2 h in test fluid. After immersion, the samples were removed from the test fluid and the printed image is rubbed 10 times with a cotton swab saturated with the test fluid. Testing was conducted at room temperature.

CHEMICAL REAGENT	RUB TEST SUBJECTIVE OBSERVATION OF VISUAL CHANGE	IMMERSION TEST SUBJECTIVE OBSERVATION OF VISUAL CHANGE
Deionized Water	NVE	NVE
Soap solution (5% Extran® MA02)	NVE	NVE
Isopropanol	NVE	NVE
Ethanol	NVE	NVE
Acetone	Topside polycarbonate film dissolved	Label destroyed
Diesel	NVE	NVE
Gasoline	NVE	NVE
n-Hexane	NVE	NVE
10 % Sodium hydroxide	NVE	NVE
10 % Sulfuric acid	NVE	NVE
Motor oil (Castrol 10W60)	NVE	NVE
Aviation hydraulic fluid (Hyjet IV)	NVE	NVE

**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.)

All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units

Extran®: MilliporeSigma

**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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

**WARRANTY**

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

Material may not be reproduced or distributed in any form without written permission

---

Brady Europe | Industriepark C3 Lindestraat 20 | B9240 Zele | Belgium | Tel: +32 52.45.7811 | Fax: +32 52.45.7812