

BRADY B-8010 MATTE BLACK LASER MARKABLE POLYESTER LABEL STOCK

TDS No. B-8010
Effective Date: 02/04/2019

Description:

GENERAL

Print Technology: Laser Marking

Materials Type: Polyester

Finish: Matte

Adhesive: Permanent Pressure Sensitive Acrylic

APPLICATIONS

B-8010 is designed to be CO2 and YAG laser markable.

REGULATORY 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

In Europe: www.bradyeurope.com/rohs

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

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

SPECIAL FEATURES

B-8010 is a high performance material designed for use in rating plate applications requiring excellent solvent resistance.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 Substrate Adhesive Total (excluding liner)	0.0022 inch (0.056 mm) 0.0007 inch (0.018 mm) 0.0029 inch (0.074 mm)
Adhesion to: - Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	36 oz/inch (40 N/100 mm) 41 oz/inch (46 N/100 mm)
- Polycarbonate	20 minute dwell 24 hour dwell	43 oz/inch (48 N/100 mm) 58 oz/inch (64 N/100 mm)

B-8010 samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
Short Term High Service Temperature	180°C for 5 min	Very slight shrinkage; No visible effect to topcoat; Label remains functional.
	170°C for 2 hours	Very slight shrinkage; No visible effect to topcoat; Label remains functional.
Humidity Resistance	30 days at 100°F(37°C), 95% RH	No visible effect
High Service Temperature	30 days at 212 °F (100°C)	No visible effect
Low Service Temperature	30 days at -40°F (-40°C)	No visible effect.
UV Light Resistance	30 days in QUV.	No visible effect
Weatherability	ASTM G155 1000 hrs in Xenon Arc Weatherometer	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of rubbing 100 cycles (to and fro) with a cotton swab saturated with the test fluid.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE EFFECTS TO BLACK TOPCOAT
Ethanol	No visible effect
Hexane	No visible effect
Isopropyl Alcohol	No visible effect
Thinner	No visible effect
Xylene	No visible effect

The following properties defined are based on immersions at room temperature, unless otherwise noted.

CHEMICAL REAGENT	EXPOSURE TIME	SUBJECTIVE OBSERVATION OF VISUAL CHANGE EFFECTS TO BLACK TOPCOAT
Isopropyl Alcohol	100 hours	No delamination
Hexane	100 hours	No delamination
Bleach (Kao® or equivalent)	100 hours	No delamination
1% Sodium hydroxide	100 hours	No delamination
1% Sulphuric acid	100 hours	No delamination
Deionized water at 65°C	200 hours	No delamination
ESSO® SAE 40 Oil	100 hrs	No delamination

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.)
 ESSO® is the registered trademark of Exxon Mobil Corporation
 Kao® is the registered trademark of Kao Corporation
 S. I.: International System of Units

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.