

**BRADY B-7658 SURFACE PRINTED REFLECTIVE SHEETING OVER-LAMINATED WITH A UV LIGHT BLOCKING CLEAR POLYESTER**

TDS No B-7658

Effective Date: 18/12/2019

**Description:**

**GENERAL**

Brady B-7658 is an Engineer Grade Prismatic Reflective Sheeting, surface printed and over-laminated with a UV Light blocking clear polyester and a pressure sensitive adhesive.

**SPECIAL FEATURES**

Brady B-7658 signs are designed for the production of reflective safety signs, non-critical traffic signs, commercial signs, street nameplates, car parks.

They are not approved to be used as public roads signs.

**REGULATORY APPROVALS**

For information on the Weeee-RoHS compliance status for a Brady Product go to one of the following websites:

In Canada: [www.bradycanada.ca/weeee-rohs](http://www.bradycanada.ca/weeee-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/weeee-rohs](http://www.bradyid.com/weeee-rohs)

**Details:**

PHYSICAL PROPERTIES	TEST METHOD	AVERAGE RESULTS
Thickness	ASTM D1000 Total	0.477 mm
Adhesion to Aluminium	ASTM D1000 20 min dwell 24 hour dwell	149 N/100 mm 174 N/100 mm
Performance properties tested on digitally printed B-7658 material		
PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High service temperature	30 days at 65°C	No visible effect
Low service temperature	30 days at -40°C	No visible effect
Short term high service temperature	1 hour at 80°C	No visible effect, longer exposure can result in prismatic optic distortion
Humidity resistance	30 days at 37°C and 95% R.H.	No visible effect
UV Light Resistance	30 days in Xenon Test Chamber	No visible effect
Weatherability	ASTM G154 Cycle 1 30 days in QUV	No visible effect

**Average Outdoor Durability:**

Outdoor performance expectations for B-7658 are based on UV resistance testing in the Q-Sun Xenon Test Chamber Model Xe-3 (Daylight Filter, Irradiance 0.35 W/m<sup>2</sup>, Wavelength 340nm, Continuous light at 63°C black panel temperature) and on weatherability testing in the QUV Accelerated Weathering Tester Model QUV/se, according to ASTM G154, Cycle 1.

The test results suggest that B-7658 may be used 6 to 8 years in outdoor environments. Actual outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques and material color. See note and warranty statement below for additional information.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
Digitally printed samples are laminated to aluminium panels and allowed to dwell 24 hours prior to testing. Tests conducted at room temperature. Testing consisted of 5 cycles of 10 minute immersions in the specified test fluid, followed by 30 minute recovery periods. After final immersion, samples rubbed 10 times with a cotton swab saturated with test fluid.	

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	EFFECT TO LABEL STOCK EFFECT TO PRINT	EFFECT TO PRINT WITH RUB
Gasoline	nve	nve
Alcohol mixture	nve	nve
Toluene	nve	nve
Methyl Ethyl Ketone	nve	nve
Isopropyl Alcohol	nve	nve
Acetone	nve	nve
Diesel	nve	nve
n-Hexane	nve	nve
Iso-octane	nve	nve
Sulfuric acid solution (10%)	nve	nve
Sodium Chloride (10%)	nve	nve
Water distilled	nve	nve

\*Alcohol mixture is a mixture of 50% ethanol, 30% methanol and 20% distilled water  
nve = no visible effect

#### 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.)

**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.

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