

Effective Date: 08-May-2020

BRADY B-7659 SURFACE PRINTED ALUMINIUM COMPOSITE MATERIAL OVER-LAMINATED WITH A UV LIGHT BLOCKING CLEAR POLYESTER

Description:

GENERAL

Brady B-7659 is a surface printed white aluminium composite material over-laminated with a UV Light blocking clear polyester film.

SPECIAL FEATURES

B-7659 material is used for outdoor signage mountable on fences, walls or poles.

B-7659 is a very robust, lightweight material and resistant to weather and therefore ideal for large outdoor signs.

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.bradyc.co.jp/products/labelsuse/rohs

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

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 - Aluminium cover layer - Polyethylene core - Aluminium cover layer - Total	0,20 mm 2,60 mm 0,20 mm 3 mm
Weight		3,50 kg/m ²
Thermal expansion coefficient		2,4 mm/m at 100°C
Performance properties tested on digitally printed B-7659 material. Printed samples were allowed to dwell 24 hours before exposure to the indicated environments.		
PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High service temperature	30 days at 80°C and 100°C	No visible effect
Low service temperature	30 days at -40°C	No visible effect
Scratch resistance	Erichsen scratch pen 5N +/- 0.1N	No visible effect
Humidity resistance	30 days at 37°C and 95% R.H.	No visible effect

Average Outdoor Durability:

Outdoor performance expectations for B-7659 are based on UV resistance testing in the Q-Sun Xenon Test Chamber Model Xe-3 (Daylight Filter, Irradiance 0.35 W/m², 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-7659 may be used successfully in outdoor environments for a period of up to 10 years. 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
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Test conducted at room temperature. Testing consisted of 50 rubs with a cotton cloth soaked in the specified test fluid.

Chemical Reagent	Subjective Observation of Visual Change
	Label Stock
Isopropyl Alcohol	nve
N-hexane	nve
Diesel B7	nve
Gasoline E10	nve
Acetone	nve
Sodium Hydroxide 10%	nve
Methyl Ethyl Ketone	nve
Xylene	nve
Sulphuric acid 37%	nve

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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Brady Europe | Poldergotestraat 9 | 9240 Zele | Belgium | Tel: +32 52.45.7811 | Fax: +32 52.45.7812