

BRADY B-510 Metalphoto® PHOTSENSITIVE ANODIZED ALUMINUM

TDS No. B-510
Effective Date:10/20/2020

Description:

GENERAL

Material Type: Photosensitive Anodized Aluminum

Finish: Metallic

Adhesive: Pressure sensitive acrylic

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

Brady B-510 meets the requirements of GG-P-455B (Type 1, Grade A and B, Class 1&2), A-A-50271 (Composition A, Class 2 and Composition C), MIL-P-19834C and MIL-DTL-15024G (Type H and G).

Details:

Performance Properties

Samples of B-510 were exposed to the conditions given in the table below. Effects to the material are noted.

CHARACTERISTIC	TEST CONDITION	EFFECT
Exterior Exposure	Black and silver image exceeds 400 hour in WeatherOmeter® Test GG-P-455B, estimated equivalent to 20 year exposure	No effect
Abrasion Resistance	Taber Abraser, CS17 grinding wheels, 1000 g/arm	Slight dulling of surface after 7000 cycles
Temperature Resistance		650°F (343°C)
Salt Spray (5% solution at 95°F (35°C))	700 hours	No corrosion

Chemical Resistance

Samples of B-510 were immersed in the chemicals given in the table below for the durations indicated. Effects to the material are noted. Testing was conducted at room temperature unless otherwise noted.

CHEMICAL REAGENT	DURATION OF EXPOSURE	EFFECT
MIL-S-3136 Type III Hydrocarbon Fluid	1 hour immersion	No effect
MIL-L-5161C Turbine and jet engine fuel	1 hour immersion	No effect
JP-4	72 hour immersion	No effect
Kerosene	12 hour immersion	No effect
Skydrol® LD-4 hydraulic fluid	24 hour immersion, room temperature and boiling point	No effect
Methyl Ethyl Ketone (MEK)	12 hour immersion	No effect
Ethyl Acetate	24 hour immersion	No effect
Xylol	24 hour immersion	No effect
Heptane	24 hour immersion	No effect
Ethyl Alcohol	72 hour immersion	No effect
10% Ferric Chloride Solution	16 hour immersion	No effect
10% Ammonium Hydroxide Solution	16 hour immersion	Slight dulling
MIL-P-21563 soap solution	16 hour immersion	No effect
25% solution MIL-C-25179 AIN in heptane (cleaning solution)	1 minute immersion	No effect
10% Sulfuric Acid solution	24 hour immersion	No effect

1% Phosphoric Acid solution	12 hour immersion	No effect
3% Nitric Acid solution	72 hour immersion	No effect
1% Trisodium Phosphate (TSP) solution	40 hour immersion	No effect
1% Sodium Hydroxide solution	1 hour immersion	Not recommended, surface attack.

Shelf Life:

Shelf life is five 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:

Skydrol® is a registered trademark of Solutia Inc.

Weather-Ometer® is a registered trademark of Atlas Material Testing Technology LLC

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

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