

Brady B-2595 aqueous inkjet printable vinyl film with permanent adhesive

TDS No. B-2595

Effective Date: 10/31/2018

Description:

Brady B-2595 indoor marking film is an aqueous, inkjet printable, flexible, matte finish, pressure sensitive adhesive product. B-2595 is designed to be used with the BradyJet™ J5000 Color Label Printer and BradyJet™ J2000 Color Label Printer.

Details:

Use:

Brady-2595 is used indoors and outdoors for Pipe Markers, Arrow Tape, Warehouse Marking, Warning Panels, Safety Signs, Arc Flash and Visual Workplace labels.

Compliance Information: See www.bradyid.com or www.brady.eu for RoHS information.

Special Properties:

Aqueous inkjet printable vinyl that yields full color and high resolution graphics.

Permanent acrylic pressure sensitive adhesive in B-2595 makes it applicable at cold temperatures.

Adhesive Type:

Acrylic

Substrate Type:

Vinyl

Standard Material Color:

White

Recommended Inks:

J5000: BradyJet™ J50 series ink cartridges; cyan, magenta, yellow, and black

J2000: BradyJet™ J20 series ink cartridge; cyan, magenta, and yellow

Thickness:

0.0054 in. (0.1372mm)

Adhesive Properties:

Adhesion to Stainless Steel

15 Minutes Dwell (Avg) 88 oz/in (96 N/100mm)

Ultimate Dwell (72 Hrs Avg) 82 oz/in (90 N/100mm)

Adhesion to Powder Coated Metal

15 Minutes Dwell (Avg) 51 oz/in(55 N/100mm)

Ultimate Dwell (72 Hrs Avg) 66 oz/in (72 N/100mm)

Adhesion to Polypropylene

15 Minutes Dwell (Avg) 83 oz/in (91 N/100mm)

Ultimate Dwell (72 Hrs Avg) 85 oz/in (93 N/100mm)

Adhesion to ABS

15 Minutes Dwell (Avg) 85 oz/in (93 N/100mm)

Ultimate Dwell (72 Hrs Avg) 84 oz/in (92 N/100mm)

Adhesion to Glass

15 Minutes Dwell (Avg) 87 oz/in (95 N/100mm)

Ultimate Dwell (72 Hrs Avg) 86 oz/in (94 N/100mm)

Note - B-2595 is not recommended for bare concrete or unpainted wood

Abrasion Resistance (ASTM D4060):

CS-10 wheels, 250 g wts.

Print legible up to 500 cycles with J50 series pigment inks

Print legible up to 500 cycles with J20 series pigment inks

Note: same print settings as those used for chemical resistance (see below)

Gloss:

85 ° 8.4 Units

Minimum Application Temperature:

0°F (-18°C).

Service Temperature:

-40°F to 140°F (-40°C to 60°C).

Average Outdoor Durability:

J5000: Up to 1 year. (Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques, and printed color).

J2000: Up to 6 months. (Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques, and printed color).

Chemical Resistance:

Samples were printed using J50 series pigment inks with a BradyJet J5000 Color Label Printer by Brady recommended printer settings (Quality: Normal, Saturation: medium color + black). 100% Cyan(C), magenta(M), yellow(Y), and black (K) squares are printed for these tests.

Samples were printed using J20 series pigment inks with a BradyJet J2000 Color Label Printer by Brady recommended printer settings (Quality Mode: 3, Color Matching: best for graphics). 78% Cyan(C), magenta(M), yellow(Y), and process black (K) squares are printed for these tests.

Testing conducted at room temperature after equilibrating samples for 24 hours post printing.

| REAGENT | J50 series ink cartridges | | J20 series ink cartridges | |
|---|---------------------------|----------|---------------------------|----------|
| | 7 DAY IMMERSION | RUB TEST | 7 DAY IMMERSION | RUB TEST |
| Deionized Water | CMYK:NE | CMYK:NE | CMYK:NE | CMYK:NE |
| Windex® Commercial Line™ Original Glass Cleaner | CYMK:F1 | CYMK:NE | CYMK:F1 | CYMK:NE |
| 10% HCl (pH 1) | CMYK:NE | CMYK:NE | CMYK:NE | CMYK:NE |
| 10 wt% Sodium Chloride | CMYK:NE | CMYK:NE | CMYK:NE | CMYK:NE |
| 10% NaOH (pH 14) | CMYK:NE* | CMYK:NE* | CY:NE* MK:F2 | CMYK:NE* |
| Isopropyl Alcohol | CMYK:NE | CYMK:F2 | CMYK:NE | CYMK:F2 |
| 50 wt% ethanol | CMYK:NE | CMYK:F2 | CMYK:NE | CMYK:F2 |
| Gasoline | CMYK:NE | CMYK:F2 | CMYK:NE | CMYK:F2 |

NE = No Effect on printed sample.

NE*= Reversible change. Coating turns yellow. Within 24hrs reverts back to original color. No ink removal.

F1= Fail – Coating turns blue. No ink removal.

F2= Fail – Some ink removal.

F3= Fail – No Ink removal. Delamination.

7 Day Immersion: Immersed in reagent for 7 days.

Rub Test: 100 hand rubs over a minute with a Q-tips® Cotton Swab soaked in reagent by applying minimal pressure.

Shelf Life:

Shelf life is one year 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.)
Q-tips® Cotton Swabs is a registered trademark of Unilever
Windex® Commercial Line™ Original Glass Cleaner

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.

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