

BRADY B-7425J INKJET PRINTABLE PROPYLENE LABEL STOCK

TDS No. B-7425J
Effective Date: 03/19/2019

Description:

GENERAL

Print Technology: Inkjet

Material Type: Polypropylene

Finish: Matte

Adhesive: Permanent Acrylic

APPLICATIONS

Laboratory identification such as vials, centrifuge tubes and test tubes

RECOMMENDED INK

J20 Ink Cartridge CMY

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-7425J is an inkjet printable label material which allows for printing colored labels.

Details:

| PHYSICAL PROPERTIES | TEST METHODS | TYPICAL RESULTS |
|----------------------------------|--|--|
| Thickness | ASTM D1000 -Total (excluding liner) | 0.005 inches (0.127 mm) |
| Adhesion to: -Stainless Steel | ASTM D1000 20 minute dwell 24 hour dwell | 62 oz/in (63 N/100 mm) 69 oz/in (70 N/100 mm) |
| -Glass | 20 minute dwell 24 hour dwell | 56 oz/in (57 N/100 mm) 63 oz/in (64 N/100 mm) |
| -Polypropylene | 20 minute dwell 24 hour dwell | 62 oz/in (63 N/100 mm) 67 oz/in (68 N/100 mm) |
| Tack | ASTM D 2979 Polyken™ Probe Tack (1 second dwell, 1 cm/sec separation) | 41 oz (1159 g) |

ENVIRONMENTAL PERFORMANCE PROPERTIES – LABEL APPLIED TO ROOM TEMPERATURE SURFACE

B-7425J samples were printed with J20 ink CMY. B-7425J samples were adhered at room temperature to the surfaces listed below.

| ENVIRONMENT | TEST METHOD | TYPICAL RESULTS |
|--------------------------|--|--|
| High Service Temperature | 5 days at 70°C (158°F) | <ul style="list-style-type: none"> ✓ 8.5 ml glass test tube ✓ 1.5 ml polypropylene cryovial ✓ 5 ml polypropylene cryovial ✓ glass microscope slide ✓ Polyethylene bag |
| Low Service Temperature | 5 days at -80°C (-112°F) | <ul style="list-style-type: none"> ✓ 8.5 ml glass test tube ✓ 1.5 ml polypropylene cryovial ✓ 5 ml polypropylene cryovial ✓ glass microscope slide ✓ Polyethylene bag |
| Simulated Incubator | 3 cycles of 1 hour at 70°C (158°F) and 3 hours at room temperature | <ul style="list-style-type: none"> ✓ 8.5 ml glass test tube ◆ 1.5 ml polypropylene cryovial ✓ 5 ml polypropylene cryovial ✓ glass microscope slide ✓ Polyethylene bag |
| Autoclave | 5 cycles at 120°C (248°F) for 20 minutes | <ul style="list-style-type: none"> ✓ 8.5 ml glass test tube ✓ 1.5 ml polypropylene cryovial ✓ 5 ml polypropylene cryovial ✓ 15 ml polypropylene tube ✓ 50 ml polypropylene tube ✓ Glass microscope slide ✓ Vial top |
| Freezer | 5 cycles of 16 hours at -80°C (-112°F) and 8 hours at room temperature | <ul style="list-style-type: none"> ✓ 8.5 ml glass test tube ✓ 1.5 ml polypropylene cryovial |

| | | |
|---------------------------------------|--|--|
| | | <ul style="list-style-type: none"> ✓ 5 ml polypropylene cryovial ✓ 15 ml polypropylene tube ✓ 50 ml polypropylene tube ✓ Glass microscope slide ✓ Polyethylene bag ✓ Vial top |
| Liquid Nitrogen | 5 cycles of 16 hours at -196°C (-320°F) and 8 hours at room temperature | <ul style="list-style-type: none"> ✓ 8.5 ml glass test tube ✓ 1.5 ml polypropylene cryovial ✓ 5 ml polypropylene cryovial ✓ 15 ml polypropylene tube ✓ 50 ml polypropylene tube ✓ Glass microscope slide ✓ Vial top |
| Freezer to 50°C (122°F) Water | 1 hour at -80°C (-112°F) then placed in 50°C (122°F) water for 10 minutes | <ul style="list-style-type: none"> ✓ 8.5 ml glass test tube ✓ 1.5 ml polypropylene cryovial ✓ 5 ml polypropylene cryovial ✓ 15 ml polypropylene tube ✓ 50 ml polypropylene tube ✓ glass microscope slide ✓ vial top |
| Liquid Nitrogen to 50°C (122°F) Water | 1 hour at -196°C (-320°F) then placed in 50°C (122°F) water for 10 minutes | <ul style="list-style-type: none"> ◆ 8.5 ml glass test tube ◆ 1.5 ml polypropylene cryovial ✓ 5 ml polypropylene cryovial ✓ 15 ml polypropylene tube ✓ 50 ml polypropylene tube ✓ glass microscope slide ✓ vial top |

✓ =Label suitable for application; no visible effect, label remains adhered to test surface

◆ =Label may work in application; test results were mixed

| PERFORMANCE PROPERTY | CHEMICAL RESISTANCE |
|----------------------|---------------------|
|----------------------|---------------------|

The chemical resistance of B-7425J printed with J20 ink CMY was tested at room temperature. The samples were immersed in the test solvent for 15 minutes. The samples were removed and rubbed 10 times with a cotton swab saturated with the test fluid. The samples were rated for the amount of print removal using the rating scale below.

| CHEMICAL REAGENT | SUBJECTIVE OBSERVATION OF VISUAL CHANGE | |
|------------------------------|---|--------------------------|
| | EFFECT TO LABEL STOCK/ADHESIVE | EFFECTS TO PRINTED IMAGE |
| Ethanol | No visible effect | 1 |
| Methanol | No visible effect | 1 |
| Toluene | Slight adhesive ooze | 1 |
| Acetone | No visible effect | 1 |
| Isopropyl Alcohol | No visible effect | 1 |
| Xylene | Slight adhesive ooze | 1 |
| 10% Formalin | No visible effect | 1 |
| Dimethylsulfoxide (DMSO) | No visible effect | 1 |
| 50% Acetic Acid | No visible effect | 1 |
| 10% Sodium Hydroxide | No visible effect | 1 |
| 10% Chlorox® bleach solution | No visible effect | 1 |

Rating Scale:

1=no visible effect

2=slight print smear or removal

3=moderate smear or print removal (print is still legible)

4=severe smear or print removal (print illegible or just barely legible)

5=complete print and/or topcoat removal

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:

ANSI: American National Standards Institute (U.S.A.)

ASTM: American Society for Testing and Materials (U.S.A.)

PSTC: Pressure Sensitive Tape Council (U.S.A.)

Polyken™ is a trademark of Testing Machines Inc.

Chlorox® is a registered trademark of The Chlorox Company

All S.I. Units (metric) are mathematically derived from the U.S. Conventional 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.

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