

TDS B-7634

Effective Date: 03/19/2019

## BRADY B-7634 POLYIMIDE MASKING TAPE

### Description:

#### GENERAL

**Material Type:** Clear Polyimide

**Finish:** Glossy

**Adhesive:** Removable Silicone

### APPLICATIONS

B-7634 is a 50 µm clear polyimide film with a removable silicone adhesive suitable for auto dispense applications. It is recommended for use as a high temperature mask, especially for use in printed circuit board applications.

### 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](http://www.bradycanada.ca/weee-rohs)

In Europe: [www.bradyeurope.com/rohs](http://www.bradyeurope.com/rohs)

In Japan: [www.bradyc.co.jp/products/labelsuse/rohs](http://www.bradyc.co.jp/products/labelsuse/rohs)

All other regions: [www.bradyd.com/weee-rohs](http://www.bradyd.com/weee-rohs)

### Details:

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D 1000 -Film -Adhesive -Total (excluding liner)	0,050 mm (0.002 inch) 0.020 mm (0.0008 inch) 0.070 mm (0.0028 inch)
Adhesion to : - Stainless Steel  - PC Board FR4	ASTM D 1000 -20 minutes -24 hours  -20 minutes -24 hours	4 N/100mm (3,6 oz/in) 4 N/100mm (3,6 oz/in)  4 N/100mm (3,6 oz/in) 5 N/100mm (4,6 oz/in)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	317 g (11 oz)
Tensile Strength and Elongation	ASTM D 1000 Machine direction	1404 N/100 mm (80 lbs/in), 61%
Dielectric Strength	ASTM D 1000	7854 V

B-7634 samples applied on aluminium and allowed to dwell for 24 hours at room temperature prior to testing.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
Short Term High Service Temperature	10 seconds at 260°C (500°F)	Tape removed cleanly without adhesive residue. Some bubbling possible.
Short Term High Service Temperature	10 minutes at 240°C (464°F)	Tape removed cleanly without leaving adhesive residue. Some bubbling possible.
Long Term High Service Temperature	30 days at 160°C (320°F)	No visible effect Tape removed cleanly without leaving adhesive residue.
Low Service Temperature	30 days at -40°C (-40°F)	No visible effect Tape removed cleanly without leaving adhesive residue.
Humidity Resistance	30 days at 38°C (100°F) / 95% Relative humidity	No visible effect Tape removed cleanly without leaving adhesive residue

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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B-7634 samples applied to aluminium and allowed to dwell for 24 hours at room temperature prior to testing. Testing consisted of 10 minutes immersion in the listed chemicals.

CHEMICAL REAGENT	OBSERVATION OF VISUAL CHANGE
Isopropyl alcohol	1
Aquanox® A4625B	1
Vigon® A201	1
Deionized Water	1

After the test in the chemical reagent, the tape removed cleanly without leaving adhesive residue.

#### Rating Scale:

- 1 = No visible effect
- 2 = Slight smear or print removal, detectable but minimal smear
- 3 = Moderate smear or print removal (print still legible)
- 4 = Severe smear or print removal (print legible or just barely legible)
- 5 = Complete print and/or topcoat removal
- NP = print removed prior to rub

#### 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.)  
Polyken™ is a trademark of Testing Machines Inc.  
Aquanox® is a registered trademark of the Kyzen Corporation  
Vigon® is a registered trademark of the Zestron Corporation

**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.

**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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