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# WHEN PERFORMANCE MATTERS MOST"

### **Technical Data Sheet**

### **BRADY B-654 POLYIMIDE MASKING TAPE**

TDS No. B-654 Effective Date: 01/21/2019

Description: <u>GENERAL</u> Print Technology: None Material Type: Polyimide Finish: Gloss Adhesive: Removable Silicone

### **APPLICATIONS**

Brady B-654 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

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-654 has very good high temperature resistance. The material withstands solder fluxes,

molten solder, and cleaning/degreasing solvents used in the manufacture of printed circuit boards. The tape removes cleanly with no adhesive residue from most surfaces.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
Short Term High Service Temperature	10 minutes at 464°F (240°C)	No visible effect on aluminum. Some bubbling on epoxy. Tape removed cleanly without adhesive residue.
Long Term High Service Temperature	30 days at 320°F (160°C)	No visible effect. Tape removed cleanly without adhesive residue.
Wave Solder Simulation	10 seconds in molten solder at 518°F (270°C)	No visible effect on aluminum, . Tape removed cleanly without adhesive residue.



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#### **Details:**

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000	
	-Film	0.0010 inch (0.025 mm)
	-Adhesive	0.0015 inch (0.038 mm) 0.0025 inch (0.063 mm)
	-Total (excluding liner)	
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell	13 oz/in (14 N/100 mm)
	24 hour dwell	14 oz/in (15 N/100 mm)
Enovy BC Boord	20 minute dwell	13 oz/in (14 N/100 mm)
-Epoxy PC Board	24 hour dwell	14 oz/in (15 N/100 mm)
Tack	ASTM D 2979	
	Polyken™ Probe Tack	18 oz (515 g)
	0.5 second dwell	
Tensile Strength and Elongation	ASTM D 1000	
	-Machine Direction	31 lbs/in (543 N/100 mm), 58%
Dielectric Strength	ASTM D 1000	6500 volts

B-654 samples for Performance Properties were tested applied directly to aluminum and epoxy

panels. Samples allowed to dwell 24 hours at room temperature prior to testing.

PERFORMANCE PROPERTY

CHEMICAL RESISTANCE

Samples were tested applied directly to aluminum and epoxy panels. Samples allowed to dwell 24 hours at room temperature prior to testing. Testing consisted of one 10 minute immersion in the listed chemicals at the specified temperatures.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE
Alphametals BIOACT® EC-7R™terpene cleaner at ( 40°C)	Slight edge lift
Isopropyl Alcohol at 175°F (80°C)	No visible effect
6% Alphametals 2110 saponifier at 158°F (70°C)	No visible effect
Deionized Water at 212°F (100°C)	No visible effect

Tape removed cleanly without adhesive residue in all solvent resistance test fluids.

### 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  $80^{\circ}$  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 applications.

### Trademarks:

 ${\sf BIOACT} \circledast$  is a registered trademark of Petroferm, Inc.

EC-7  $R^{\, \ensuremath{\mathsf{TM}}}$  is a trademark of Petroferm, Inc.

Polyken<sup>™</sup> is a trademark of Testing Machines Inc. ASTM: American Society for Testing and Materials (U.S.A.) All U.S. Conventional Units are mathematically derived from the S.I. (metric) Units

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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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#### WARRANTY

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