

B-654 - Technical Data Sheet

TDS erhalten von:

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

TDS No. B-654

Effective Date: 07-Jun-2010

Description:

Brady B-654 is 1.0 mil transparent polyimide film with a removable silicone pressure sensitive adhesive.

Brady B-654 is recommended for use as a high temperature mask, especially for use in printed circuit board applications.

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.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Film -Adhesive -Total	0.0010 inch (0.025 mm) 0.0015 inch (0.038 mm) 0.0025 inch (0.063 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	13 oz/in (14 N/100 mm) 14 oz/in (15 N/100 mm)
-Epoxy PC Board	20 minute dwell 24 hour dwell	13 oz/in (14 N/100 mm) 14 oz/in (15 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	18 oz (515 g)
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 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.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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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.

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **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*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

Trademarks:
 BIOACT® is a registered trademark of Petroferm, Inc.
 EC-7R™ is a trademark of Petroferm, Inc.
 Polyken™ 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

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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Wir helfen Ihnen gerne weiter.