

## BRADY B-549 POLYESTER LABEL STOCK

TDS No. B-549

Effective Date: 08/12/2002

### **Description:**

Brady B-549 is a flexible, dimensionally stable, low temperature, pressure sensitive adhesive tape.

### **Details:**



### **Use:**

Brady B-549 is designed for use with the Brady Labelizer® Plus Industrial Labeling System and the VersaPrinter™ Label and Sign Maker System, and GlobalMark™ Industrial Label Maker for permanent application.

### **Special Properties:**

Adhesive can be applied at temperatures down to -10°F (-23°C).

### **Adhesive Type:**

Permanent pressure sensitive acrylic

### **Substrate Type:**

Olefin/polyester film

### **Standard Material Colors:**

White and yellow

### **Standard Legend Color:**

Black

### **Thickness (PSTC-33):**

Total: 0.003 in. (0.076mm)

### **Tensile Strength (PSTC-31):**

35 lb/in. (611 N/100mm)

### **Elongation (PSTC-31):**

95%

### **Adhesive Properties:**

Adhesion to Steel (PSTC-1)

15 Minute Dwell (Avg.) -- 25 oz/in. (27 N/100mm)

Ultimate Dwell (72 Hrs.) (Avg.) -- 25 oz/in. (27 N/100mm)

Tack (ASTM D 2979) (Avg.) -- 750 g (7.5 N)

Drop Shear (PSTC-7) (Avg.) -- <1 Hr.

### **Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):**

CS-10 wheels, 250 g wts.

The printed legend withstands up to 200 cycles.

CS-10 wheels, 1000 g wts.

Substrate withstands up to 1000 cycles.

### **Gloss:**

20 Gardner Units

**Minimum Application Temperature:**

-10°F (-23°C)

**Service Temperature:**

-40°F to 212°F (-40°C to 100°C)

**Average Outdoor Durability:**

Up to 1 year, however not recommended for outdoor use.

**Chemical Resistance:**

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	F	NE	NE
10% Sulfuric Acid	NE	NT	NE
30% HCl	F	NE	NE
10% HCl	F	NE	NE
50% NaOH	F	NE	NE
10% NaOH	F	NE	NE
Methyl Ethyl Ketone	F	F	F
Acetone	F	F	F
1,1,1-Trichloroethane	F	F	F
Methanol	F	NE	F
IPA (Isopropanol)	F	NE	F
ASTM #3 Oil	F	NE	NE
SAE 20 Oil	NE	NT	NE
Alconox®	F	NE	NE
Toluene	F	F	F
Mineral Spirits	F	F	NE
Glacial Acetic Acid	F	NE	F
5% Acetic Acid	NE	NT	NE
Diesel Fuel	F	F	NE
Heptane	F	F	NE
Conc. Ammonia	F	NE	NE
10% Ammonia	NE	NT	NE
Kerosene	F	F	NE
Water	NE	NT	NE
20% Sodium Carbonate	F	NE	NE
2% Sodium Carbonate	NE	NT	NE
10% NaCl	NE	NT	NE
Bleach	NE	NT	NE

NE = No Effect

NT = Not Tested

F = Failed (affected Sample)

7 Day Immersion: Immersed in reagent for 7 days.

Dip Test: Five 10 minute dips in reagent with 30 minute recovery.

Rub Test: Rubbed sample with swab soaked in reagent.

**Shelf Life:**

1 year when stored at 70°F (21°C) and 40% to 50% R.H.

**Trademarks:**

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Labelizer® is a registered trademark of Brady Worldwide, Inc.

Signmark® is a registered trademark of Brady Worldwide, Inc.

VersaPrinter™ is a trademark of Brady Worldwide, Inc.

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ASTM: American Society for Testing and Materials (U.S.A.)  
PSTC: Pressure Sensitive Tape Council (U.S.A.)  
SAE: Society of Automotive Engineers (U.S.A.)  
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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