

## BRADY B-587 PHOSPHORESCENT TAPE

TDS No. B-587

Effective Date: 11/06/2017

### **Description:**

Brady B-587 is a phosphorescent tape designed for use with the Labelizer® Plus Industrial Labeling System, VersaPrinter™ Label and Sign Maker System, and the GraphicsPro™ Label and Sign Creator.

### **Details:**



### **Use:**

Brady B-587 is used for exit and directional labels, identification of fire alarms and extinguishers, and directional systems for escape or evacuation routes.

### **Substrate Type:**

Phosphorescent vinyl film

### **Adhesive Type:**

Acrylic

### **Standard Legend Colors:**

Black, red, blue, green, white, cyan, magenta and yellow

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

Total: 0.0065 in. (0.165mm)

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

20.0 lb/in. (350 N/100mm)

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

55%

### **Adhesive Properties:**

Adhesion to Steel (PSTC-1)

15 Minute Dwell (Avg.) -- 85 oz/in. (93 N/100mm)

Ultimate Dwell (72 Hrs.) (Avg.) -- 115 oz/in. (126 N/100mm)

Tack (ASTM D 2979) (Avg.) -- 800 g (7.7 N)

Drop Shear (PSTC-7) (Avg.) -- 75 Hrs.

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

CS-10 wheels, 250 g wts.

Legend withstands up to 50 cycles.

CS-10 wheels, 500 g wts.

Substrate withstands over 30,000 cycles.

### **Minimum Application Temperature:**

50°F (10°C)

### **Service Temperature:**

-40°F to 175°F (-40°C to 80°C)

**Average Outdoor Durability:**

Not recommended for outdoor use.

**Chemical Resistance:**

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% HCl	NE	NE	NE
10% HCl	NE	NE	NE
50% NaOH	NE	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	F	F
IPA (Isopropanol)	F	F	F
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	F	F	F
Mineral Spirits	F	NE	NE
Diesel Fuel	F	F	NE
Heptane	F	F	NE
Conc. Ammonia	F	F	F
10% Ammonia	NE	NE	NE
Kerosene	F	NE	NE
Water	NE	NE	NE
2% Sodium Carbonate	NE	NE	NE
10% NaCl	NE	NE	NE
Bleach	NE	NE	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 for 1 minute with swab soaked in reagent.

**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:**

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GraphicsPro™ is a trademark of Brady Worldwide, Inc.

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.

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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