

BRADY B-927 TAMPER RESISTANT TAPE

TDS No. B-927
Effective Date: 03/11/1999

Description:

Brady B-927 outdoor marking film is a flexible, dimensionally stable, pressure sensitive adhesive product.

Details:

Use:

Brady B-927 is used for marking applications requiring a material which is both durable outdoors and tamper resistant.

Special Properties:

Brady B-927 is designed to fracture easily to prevent one piece removal. It has permanent adhesion to a wide variety of clean, dry surfaces.

Adhesive Type:

Pressure sensitive acrylic

Substrate Type:

Acrylic film

Standard Material Color:

White

Standard Legend Colors:

Black, blue, and red

Thickness (PSTC-33):

0.0035 in. (0.089 mm)

Tensile Strength (PSTC-31):

9 lb/in. (158 n/100 mm)

Elongation (PSTC-31):

10%

Adhesive Properties:

Adhesion to Steel (PSTC-1)
15 Minute Dwell (Avg.) -- destroys
Ultimate Dwell (72 Hrs.) (Avg.) -- destroys
Tack (ASTM D 2979) (Avg.) -- 600 g
Drop Shear (PSTC-7) (Avg.) -- 8 hours

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

CS-10 wheels, 250 g weights
Legend withstood up to 1,000 cycles
CS-17 wheels, 1000 g weights
Substrate withstood up to 1,350 cycles

Gloss (60°):

55 Gardner Units

Minimum Application Temperature:

50°F (10°C)

Service Temperature:

-30°F to 250°F (-34°C to 121°C)

Average Outdoor Durability:

5 years (Average expected outdoor life of product will depend on user definition of failure and climatic conditions.)

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	NE	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	NE
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
Glacial Acetic Acid	F	F	F
5% Acetic Acid	NE	NE	NE
Diesel Fuel	NE	NE	NE
Heptane	F	F	NE
Cellosolve Acetate	F	F	F
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	F	F	NE
Kerosene	NE	NE	NE
Water	NE	NE	NE
Gasoline	F	F	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:

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

Trademarks:

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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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Brady North America | 6555 W. Good Hope Rd | Milwaukee, WI 53223 | USA | Tel: 414-358-6600 | Fax: 800-292-2289