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Technical Data Sheet

**BRADY B-997 BRADYLITE® REFLECTIVE SHEETING**

TDS No. B-997

Effective Date: 11/19/2010

**Description:**

B-997 BradyLite® Reflective Sheeting is a reflective sheeting backed with a pressure sensitive adhesive.

**Details:****Use:**

B-997 BradyLite® Reflective Sheeting is used for utility plant markings applied outdoors in cold climates.

**Special Properties:**

B-997 BradyLite® Reflective Sheeting is designed to be applied at cold temperatures. It has excellent weatherability.

**Adhesive Type:**

Pressure sensitive acrylic: Class 4 (Fed. Spec. L-S-300)

**Substrate Type:**

Reflective sheeting: Type 1 (Fed. Spec. L-S-300)

**Standard Material Colors:**

Orange, white and yellow

**Standard Legend Color:**

Black

**Thickness (PSTC-33):**

Total: 0.007 in. (0.18mm)

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

10 lb/in. (175 N/100mm)

**Elongation (PSTC-31):**

10%

**Adhesive Properties:**

Adhesion to Steel (PSTC-1)

15 Minute Dwell (Avg.) -- Destroys

Tack (ASTM D 2979) (Avg.) -- 450 g (4.4 N)

Drop Shear (PSTC-7) (Avg.) -- 30 Hrs.

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

CS-10 wheels, 250 g wts.

Legend withstands up to 1000 cycles.

Substrate withstands up to 10,000 cycles.

**Gloss:**

75 Gardner Units

**Reflectivity:**

Reflectivity 1 (Fed. Spec. L-S-300)

**Minimum Application Temperature:**

-10°F (-27°C)

**Service Temperature:**

-40°F to 200°F (-40°C to 93°C)

**Average Outdoor Durability:**

4-6 years (Average expected outdoor life of product will depend on user definition of failure, and climatic conditions, mounting techniques and material color.)

**Chemical Resistance:**

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	F	NE	NE
10% Sulfuric Acid	F	NE	NE
30% HCl	F	NE	NE
10% HCl	F	NE	NE
50% NaOH	NE	NE	NE
10% NaOH	F	F	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®	F	NE	NE
Toluene	F	F	F
Mineral Spirits	F	NE	NE
Glacial Acetic Acid	F	F	F
5% Acetic Acid	F	NE	NE
Diesel Fuel	F	NE	NE
Heptane	F	NE	NE
Sodium Hypochlorite	F	NE	NE
10% Ammonia	F	NE	NE
Turpentine	F	NE	NE
Kerosene	F	NE	NE
Water	F	NE	NE
Gasoline	F	F	F

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.

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 products fitness for use in their actual applications.

**Trademarks:**

Alconox® is a registered trademark of Alconox Co.  
Bradylite® is a registered trademark of Brady Worldwide, Inc.  
Signmark® is a registered trademark of Brady Worldwide, Inc.  
ASTM: American Society for Testing and Materials (U.S.A.)  
Fed. Spec.: United States Federal Specification (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

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