

BRADY B-790 HIGH INTENSITY REFLECTIVE SHEETING

TDS No. B-790

Effective Date: 11/13/2017

Description:

Brady B-790 is a High Intensity grade reflective sheeting with a low temperature permanent adhesive.

Details:

Use:

Brady B-790 is used for utility plant marking.

Special Properties:

Brady B-790 is designed to be applied at cold temperatures. It has excellent weatherability and reflectivity.

Adhesive Type:

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

Substrate Type:

Reflective sheeting - Type 2 (Fed. Spec. L-S 300).

Standard Material Colors:

White, yellow, red, and green

Standard Legend Colors:

Black

Thickness (PSTC-33):

Total: 0.010 in. (0.25 mm)

Tensile Strength (PSTC-31):

42 lb/in. (740 N/100mm)

Elongation (PSTC-31):

5%

Adhesive Properties:

Adhesion to Steel (PSTC-1)

15 Minute Dwell (Avg.) -- destroys

Ultimate Dwell (72 Hrs.) (Avg.) -- destroys

Tack (ASTM D 2979) (Avg.) -- 1200 g (11.8 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 weights

Legend withstands up to 1000 cycles

CS-10 wheels, 500 g weights

Substrate withstands up to 19,000 cycles

Gloss 60°:

White: 130 Gardner Units

Yellow: 120 Gardner Units

Minimum Application Temperature:

-10°F (-27°C)

Service Temperature:

-40°F to 175°F (-40°C to 80°C)

Average Outdoor Durability:

4-6 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	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
Glacial Acetic Acid	F	F	F
5% Acetic Acid	NE	NE	NE
Diesel Fuel	F	F	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	F	F	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:

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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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