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Technical Data Sheet

BRADY B-721 DETECTABLE IDENTOLINE® UNDERGROUND LINE WARNING TAPE

TDS No. B-721

Effective Date: 15-Feb-2001

Description:

Brady B-721 is a printed foil laminate tape.

Details:



Use:

B-721 is used as an aid in locating buried utility lines. It is installed below ground level directly over the line it protects.

Special Properties:

B-721 can be detected at depths up to 18 inches with most inexpensive radio type metal detectors.

Substrate Type:

Aluminum foil core sandwiched between two layers of polyester. The top layer is subsurface printed.

Standard Material Colors:

Blue, green, orange, red, and yellow

Standard Legend Color:

Black

Thickness (ASTM D 1593):

0.005 in. (0.13 mm)

Tensile Strength (ASTM D 638):

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

Elongation (ASTM D 638):

50%

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

CS-10 wheels, 250 g wts.

Legend withstands up to 10,000 cycles

Simulated Underground Burial Test:

(A solution of pH 7.1 prepared by adding 50% sulfuric acid to a 10% (wt.) solution of Na₂S•9H₂O in water.)

No discoloration of film or bleed of legend.

Chemical Resistance:

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

Shelf Life:

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

Trademarks:

Alconox® is a registered trademark of Alconox Co.

Identoline® 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.)

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.

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