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Technical Data Sheet

BRADY B-584 REFLECTIVE TAPE

TDS No. B-584
Effective Date: 08/12/2002

Description:
Brady B-584 is a reflective tape designed for use with the Labelizer® Plus Industrial Labeling System, GraphicsPro™ Label and Sign Creator, VersaPrinter™ Label and Sign Maker System, and the HandiMark® Portable Label Maker, PowerMark® Sign and Label Maker and GlobalMark™ Industrial Label Maker.

Details:



Use:
Brady B-584 is used in applications such as outdoor pole and pedestal identification and indoor long distance scanning of racks and shelves where high visibility is critical.

Adhesive Type:
Pressure sensitive acrylic: Class 1 (Fed. Spec. L-S-300)

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

Standard Material Colors:
Silver, yellow and orange

Standard Legend Colors:
Black, white, red, green, blue, yellow, magenta and cyan

Thickness (PSTC-33):
Total: 0.0055 in. (0.14mm)

Tensile Strength (PSTC-31):
Silver: 20 lb/in. (350 N/100mm)
Yellow and Orange: 10 lb/in. (175 N/100mm)

Elongation (PSTC-31):
Silver: 20%
Yellow and Orange: 118%

Adhesive Properties:
Adhesion to Steel (PSTC-1)
15 Minute Dwell (Avg.) -- 70 oz/in. (77 N/100mm)
Ultimate Dwell (72 Hrs.) (Avg.) -- Destroys
Tack (ASTM D 2979) (Avg.) -- 150 g (1.5 N)
Drop Shear (PSTC-7) (Avg.) -- >1200 Hrs.

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):
CS-10 wheels, 250 g wts.
Legend withstands up to 100 cycles.
CS-10 wheels, 500 g wts.
Substrate withstands over 15,000 cycles.

Gloss:

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100 Gardner Units

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

Minimum Application Temperature:
Silver: 50°F (10°C)
Yellow and Orange: 0°F (-18°C)

Service Temperature:
-40°F to 158°F (-40°C to 70°C)

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

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	F	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	NE	F
IPA (Isopropanol)	F	NE	F
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	F	F	F
Mineral Spirits	NE	NE	NE
Glacial Acetic Acid	F	F	F
5% Acetic Acid	F	NE	NE
Diesel Fuel	F	NE	NE
Heptane	F	NE	F
Conc. Ammonia	F	NE	NE
10% Ammonia	NE	NE	NE
Kerosene	F	NE	F
Water	NE	NE	NE
Gasoline	F	F	F
20% Sodium Carbonate	NE	NT	NE
2% Sodium Carbonate	NE	NT	NE
10% NaCl	NE	NT	NE
Bleach	NE	NT	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:
1 year when stored at 70°F (21°C) and 40% to 50% R.H.

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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.
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