

BRADY B-938 POLYETHYLENE PRESSURE SENSITIVE FILM

TDS No. B-938
Effective Date: 06/05/2001

Description:

Brady B-938 is a polyethylene film with pressure sensitive adhesive designed for use with the GraphicsPro™ Label & Sign Creator.

Details:

Use:

Brady B-938 is used for general indoor labeling.

Substrate Type:

Polyethylene film

Standard Material Colors:

White, yellow and clear

Standard Legend Colors:

Black, white, red, green, blue, yellow, magenta and cyan

Thickness (PSTC-33):

Total: 0.0045 in. (0.115mm)

Tensile Strength (PSTC-31):

Break: 86 lb/in. (1506 N/100mm)

Elongation (PSTC-31):

Break: 435%

Adhesive Properties:

Adhesion to Steel (PSTC-1)
15 Minute Dwell (Avg.) -- 53 oz/in. (58 N/100mm)
Ultimate Dwell (72 Hrs.) (Avg.) -- 92 oz/in. (100 N/100mm)
Tack (ASTM D 2979) (Avg.) -- 1200 g (11 N)
Drop Shear (PSTC-7) (Avg.) -- 4.0 Hrs.

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

CS-10 wheels, 250 g wts.
The printed legend withstands up to 100 cycles.

Gloss:

70 Gardner Units

Minimum Application Temperature:

50°F (10°C)

Service Temperature:

-40°F to 176°F (-40°C to 80°C)

Average Outdoor Durability:

Not recommended.

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	F
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	NE	NE	F
IPA (Isopropanol)	NE	NE	F
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	F	NE	NE
Alconox®	F	NE	NE
Toluene	F	F	F
Mineral Spirits	F	F	F
Glacial Acetic Acid	F	NE	F
5% Acetic Acid	NE	NE	F
Diesel Fuel	F	F	NE
Heptane	F	NE	F
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	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.

Shelf Life:

1 year 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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