

BRADY B-450 POLYETHYLENE SIGNS

TDS No. B-450

Effective Date: 02/15/2001

Description:

Brady B-450 is a surface printed polyethylene sign.

Details:



Use:

High Visibility Fire Equipment Signs and a variety of custom markers and signs.

Substrate Type:

Linear polyethylene sheet containing UV stabilizers.

Standard Material Color:

White

Standard Legend Colors:

Red, blue, green, orange, and black

Thickness (ASTM D 1593):

0.055 in. (1.4 mm)

Tensile Strength (ASTM D 638):

3600 PSI (25 M Pa)

Elongation (ASTM D 638):

4%

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

CS-10 wheels, 1000 g weights

Legend withstands up to 1,200 cycles

H-22 wheels, 1000 g weights

Substrate withstands over 22,000 cycles

Gloss (60°):

20 Gardner Units

Flammability (ASTM D 635):

Burn rate 1.4 in./min. (3.6 cm/min.)

Service Temperature:

-40°F to 180°F (-40°C to 82°C)

Average Outdoor Durability:

3 to 5 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	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	NE	F
Acetone	F	NE	F
1,1,1-Trichloroethane	F	NE	NE
Methanol	F	NE	F
IPA (Isopropanol)	F	NE	NE
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	F	NE	NE
Mineral Spirits	NE	NE	NE
Glacial Acetic Acid	F	F	F
5% Acetic Acid	NE	NE	NE
Diesel Fuel	NE	NE	NE
Heptane	NE	NE	NE
Cellosolve Acetate	F	F	NE
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	NE	NE	NE
Kerosene	NE	NE	NE
Water	NE	NE	NE
Gasoline	F	NE	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:

Unlimited 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.)

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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