

**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:**

Alconox® is a registered trademark of Alconox Co.

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.

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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