

## BRADY B-120 FIBERGLASS SIGNS

TDS No. B-120

Effective Date: 02/12/2007

### Description:

Brady B-120 is a reinforced polyester sign panel with protected graphics.

### Details:



### Use:

Brady B-120 fiberglass signs are designed for use in industrial, utility, commercial, and institutional environments. Common uses include safety signs, utility signs, information signs, traffic signs, and valve tags. The sign construction is recommended for both indoor and outdoor use.

### Special Properties:

The sign legends or other graphics are permanently embedded within the sign panel, allowing for use in the most severe environments.

### Substrate Type:

Fiberglass reinforced polyester.

### Standard Material Colors:

White and yellow

### Standard Legend Colors:

Red, blue, green, and black are the most commonly used. Other colors are also available.

### Thickness (ASTM D 1593):

0.100 in. (2.5 mm)

### Tensile Strength (ASTM D 638):

9000 psi (62 MPa)

### Flexural Properties (ASTM D 790):

Yield: 12,000 psi (83 MPa)

Modulus: 20,000 psi (138 MPa)

### Weight (ASTM D 646):

0.70 lb/ft<sup>2</sup> (3.5 kg/m<sup>2</sup>)

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

CS-17 wheels, 1000 g wts.

Legend shows no effect after 20,000 cycles.

Substrate shows no effect after 20,000 cycles.

### Gloss:

25 Gardner units

### Service Temperature:

-40°F to 193°F (-40°C to 90°C)

### Flammability (ASTM D 635):

Burn rate: 1.0 in/min. (2.5 cm/min.)  
Extent of burn: 4.0 in. (10.0 cm)

**Average Outdoor Durability:**

Up to 25 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     | NE              | NE       | NE       |
| 10% Sulfuric Acid     | NE              | NE       | NE       |
| 30% HCl               | NE              | NE       | NE       |
| 10% HCl               | NE              | NE       | NE       |
| 50% NaOH              | NE              | NE       | NE       |
| 10% NaOH              | NE              | NE       | NE       |
| Methyl Ethyl Ketone   | F               | NE       | NE       |
| Acetone               | F               | NE       | NE       |
| 1,1,1-Trichloroethane | NE              | NE       | NE       |
| Methanol              | NE              | NE       | NE       |
| IPA (Isopropanol)     | NE              | NE       | NE       |
| ASTM #3 Oil           | NE              | NE       | NE       |
| SAE 20 Oil            | NE              | NE       | NE       |
| Alconox®              | NE              | NE       | NE       |
| Toluene               | NE              | NE       | NE       |
| Mineral Spirits       | NE              | NE       | NE       |
| Glacial Acetic Acid   | NE              | NE       | NE       |
| 5% Acetic Acid        | NE              | NE       | NE       |
| Diesel Fuel           | NE              | NE       | NE       |
| Heptane               | NE              | NE       | NE       |
| Cellosolve Acetate    | F               | NE       | NE       |
| Conc. Ammonia         | NE              | NE       | NE       |
| 10% Ammonia           | NE              | NE       | NE       |
| Turpentine            | NE              | NE       | NE       |
| Kerosene              | NE              | NE       | NE       |
| Water                 | NE              | NE       | NE       |
| Gasoline              | NE              | 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 30 seconds 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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Brady North America | 6555 W. Good Hope Rd | Milwaukee, WI 53223 | USA | Tel: 414-358-6600 | Fax: 800-292-2289