

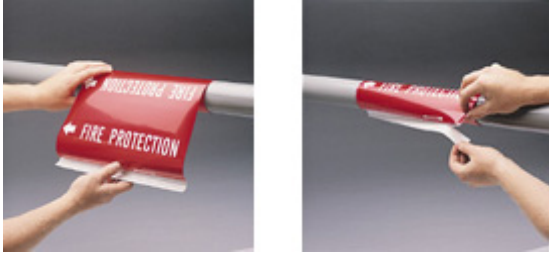
**BRADY B-689 HIGH PERFORMANCE COILED PIPEMARKER**

TDS No. B-689  
Effective Date: 02/25/2009

**Description:**

Brady B-689 Pipemarkers are coiled printed plastic sheets with sealed color graphics. The markers are designed to be mechanically curled around a pipe and secured with the attached tape flap.

**Details:**



**Use:**

Brady B-689 Pipemarkers are designed for use on rusty, dirty, wet, or rough pipes, where pressure sensitive labels cannot be used. Pipemarkers are easy to apply. High performance markers are designed for use in severe environmental conditions.

**Special Properties:**

Brady B-689 Pipemarkers are resistant to UV light exposure, high humidity, high temperatures, abrasion, chemical reagents, and physical agitation such as washdowns or wind.

**Compliance:**

Brady B-689 Pipemarkers meet ANSI A13.1 1981 requirements for color field length and letter height and color.

**Standard Material Colors:**

White, blue, green, red, yellow orange and aluminum

**Standard Legend Colors:**

White and black

**Thickness (ASTM D 1593):**

Total: 0.006 in. (0.152 mm)

**Standard Sizes/Dimensions:**

| Marker Size | Fits Pipe O.D. | Marker Width | Marker Length | Marker Weight |
|-------------|----------------|--------------|---------------|---------------|
| 0           | 0.5 - 1.5 in.  | 8.0 in.      | 5.0 in.       | 0.3 oz        |
| I           | 0.75 - 2.5 in. | 8.0 in.      | 9.0 in.       | 0.5 oz        |
| II          | 2.0 - 8.0 in.  | 12.0 in.     | 26.5 in.      | 2.0 oz        |

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

CS-17 wheels, 1000 g wts.  
Laminate withstands up to 2,250 cycles.  
Legend withstands up to 2,400 cycles.

**Gloss:**

115 Gardner Units

**Service Temperature:**

-40°F to 248°F (-40°C to 120°C)

**Average Outdoor Durability:**

5-8 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques and material color.)

**Chemical Resistance:**

| REAGENT                | 7 DAY IMMERSION | DIP TEST |
|------------------------|-----------------|----------|
| 30% Sulfuric Acid      | NE              | NE       |
| 10% Sulfuric Acid      | NE              | NE       |
| 30% HCl                | NE              | NE       |
| 10% HCl                | NE              | NE       |
| 50% NaOH               | NE              | NE       |
| 10% NaOH               | F               | NE       |
| Methyl Ethyl Ketone    | F               | F        |
| Acetone                | F               | F        |
| Methanol               | NE              | NE       |
| IPA (Isopropanol)      | NE              | NE       |
| ASTM #3 Oil            | NE              | NE       |
| SAE 20 Oil             | NE              | NE       |
| Alconox®               | NE              | NE       |
| Toluene                | F               | F        |
| Mineral Spirits        | F               | NE       |
| Glacial Acetic Acid    | F               | F        |
| 5% Acetic Acid         | NE              | NE       |
| Diesel Fuel            | NE              | NE       |
| Heptane                | F               | NE       |
| 10% Ammonia            | F               | NE       |
| Turpentine             | F               | NE       |
| Kerosene               | F               | NE       |
| Water                  | NE              | NE       |
| Gasoline               | F               | NE       |
| 5% Sodium Hypochlorite | NE              | NE       |
| 10% NaCl               | 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.

**Shelf Life:**

Indefinite 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.

ANSI: American National Standards Institute (U.S.A.)

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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