THE DATASHEET OF

75161

Technical Data Sheet

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^2 (3.5 kg/m^2)

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:
-40ºF to 193ºF (-40ºC to 90ºC)

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.
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