Technical Data Sheet

BRADY B-541 TEFLON COATED ANODIZED ALUMINUM

TDS No. B-541
Effective Date: 02/15/2001

Description:
Brady B-541 is an anodized aluminum, double coated teflon barcode tag.

Details:

Use:
Brady B-541 is designed for use in Pulp and Paper, Petrochemical, Utility, Commercial, Institutional and other harsh environments.

Special Properties:
Brady B-541 is designed to resist paint, most chemicals, sunlight, solvents and heat up to 500°F.

Substrate Type:
Teflon coated anodized aluminum

Thickness (ASTM D 1593):
Total: 0.032 - 0.033 in. (0.82 - 0.84 mm)

Gloss:
8 Gardner Units

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):
CS-17 wheels, 1000 g wts.
Readable up to 1000 cycles.

Service Temperature:
-40°F to 500°F (-40°C to 260°C)

Average Outdoor Durability:
Up to 10 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	F	NE
10% Sulfuric Acid	F	F	NE
30% HCl	F	F	NE
10% HCl	F	F	NE
50% NaOH	F	F	NE
10% NaOH	F	F	NE
Methyl Ethyl Ketone	NE	NE	NE
Acetone	NE	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	F	NE	NE
Alconox®	F	NE	NE
Mineral Spirits	NE	NE	NE
Diesel Fuel	NE	NE	NE
Heptane	NE	NE	NE
10% Ammonia	NE	NE	NE
Kerosene	NE	NE	NE
Water	NE	NE	NE
Gasoline	NE	NE	NE
2% Sodium Carbonate	F	NE	NE
10% NaCl	NE	NE	NE
Bleach	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 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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