

BRADY B-745 LASER PRINTABLE VINYL

TDS No. B-745
Effective Date: 07/01/2011

Description:

Brady B-745 is a vinyl film with an acrylic pressure sensitive adhesive and a printable coating specially formulated for laser printers and toners.

Details:

Use:

B-745 is designed for printing signs and labels used for safety, maintenance and general markings within a facility.

Special Properties:

As a material formulated specially for laser printers, the result is high resolution, good solvent resistance, smudge resistance and moderate to high temperature performance.

Adhesive Type:

Pressure sensitive acrylic

Substrate Type:

Vinyl

Standard Material Color:

White

Thickness (PSTC-33):

Total: 0.0045 in. (0.114mm)

Tensile Strength (PSTC-31):

Break: 14.4 lb/in. (252 N/100mm)

Elongation(PSTC-31):

Break: 69%

Adhesive Properties:

Adhesion to Steel (PSTC-1)
15 Minute Dwell (Avg.) -- 62 oz/in (68 N/100mm)
Ultimate Dwell (72 Hrs.) (Avg.) -- 63 oz/in. (69 N/100mm)
Tack (ASTM D 2979) (Avg.) -- 842 g (8.1 N)
Drop Shear (PSTC-7) (Avg.) -- 1 Hr.

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

CS-10 wheels, 250 g wts.
Toner withstands up to 500 cycles.
Preprint withstands up to 500 cycles.
Substrate withstands over 9000 cycles.

Minimum Application Temperature:

10°F (-12°C)

Service Temperature:

-40°F to 180°F (-40°C to 82°C)

Average Outdoor Durability:

3-5 years (Average expected outdoor life of product will depend on user definition of failure, climatic conditions, mounting techniques, and material color.)

Chemical Resistance:

All chemical testing was performed on B-745 with preprinted colors and laser printing. The laser printing was done with the Brother HL-630 laser printer.

REAGENT	7 DAY IMMERSION	DIP TEST	RUB TEST
30% Sulfuric Acid	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% HCl	F	NE	NE
10% HCl	NE	NE	NE
50% NaOH	NE	NE	NE
10% NaOH	NE	NE	NE
Methyl Ethyl Ketone	NT	F	F
Acetone	NT	F	F
1,1,1-Trichloroethane	NT	F	F
IPA (Isopropanol)	F	NE	F
ASTM #3 Oil	NE	NE	NE
Alconox®	NE	NE	NE
Toluene	NT	F	F
Mineral Spirits	F	NE	F
Glacial Acetic Acid	NT	F	F
5% Acetic Acid	NE	NE	NE
Diesel Fuel	F	NE	F
Heptane	F	NE	F
Cellosolve Acetate	NT	F	F
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	NT	F	F
Kerosene	F	NE	F
Water	NE	NE	NE
Gasoline	NT	F	F

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.

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **two years from the date of receipt** for this product as long as this product is stored in its original packaging in an environment *below 80°F (27°C) and 60% RH*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use in their actual applications.

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.)

PSTC: Pressure Sensitive Tape Council (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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