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BRADY
WHEN PERFORMANCE MATTERS MOST™

Technical Data Sheet

BRADY B-707 LASERTAB® MARKERS

TDS No. B-707
Effective Date: 27-Jan-2000

Description:

B-707 is a white polyester film with a permanent acrylic pressure sensitive adhesive and a topcoat specifically formulated for laser printer toners.

B-707 is recommended for telecommunications applications, computer housing units, rating plates and asset I.D. that require good solvent resistance and moderate to high temperature performance.

B-707 is formulated specially for laser printers. The material offers high print resolution, good solvent resistance, smudge resistance, and moderate to high temperature performance. The adhesive is specifically formulated for rough and low surface energy surfaces.

B-707 is a UL Recognized Component and CSA Accepted material when printed with designated laser printer toners. See UL File MH17154 and CSA Acceptance Record LS41833 for specific details.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	0.0026 inch (0.0660 mm) 0.0020 inch (0.0508 mm) 0.0046 inch (0.1168 mm)
Adhesion to: -Stainless Steel -Textured ABS -Polypropylene -Painted Enamel -Powder Coated	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	53 oz/in (58 N/100 mm) 65 oz/in (71 N/100 mm) 16 oz/in (18 N/100 mm) 17 oz/in (19 N/100 mm) 29 oz/in (32 N/100 mm) 32 oz/in (35 N/100 mm) 58 oz/in (63 N/100 mm) 72 oz/in (79 N/100 mm) 42 oz/in (46 N/100 mm) 52 oz/in (57 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	37 oz (1150 g)
Drop Shear	PSTC-7 (except use 1/2" x 1" sample)	42 hours
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction -Cross Direction	39 lbs/in (683 N/100 mm), 77% 53 lbs/in (928 N/100 mm), 65%
Dielectric Strength	ASTM D 1000	7500 volts

Performance Properties tested on B-707. Samples laser printed with a Hewlett Packard LaserJet III.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 267 °F (130°C)	No visible effect
Low Service Temperature	30 days at -40°F (-40°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect
UV Light Resistance	30 days in UV Sunlighter™ 100	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect
Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples printed with a Hewlett Packard LaserJet III printer. Test was conducted at room temperature after 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. Ten cotton swab rubs wetted in the specified reagent after final immersion.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	APPEARANCE OF LABEL STOCK	APPEARANCE OF LASER PRINTING
Methyl Ethyl Ketone	Slight adhesive ooze	Printing removed
1,1,1-Trichloroethane	Slight adhesive ooze	Printing removed
Toluene	Slight adhesive ooze	Printing removed
Freon® TMS	Slight adhesive ooze	No visible effect
Isopropyl Alcohol	No visible effect	No visible effect
Mineral Spirits	No visible effect	No visible effect
JP-4 Jet Fuel	No visible effect	No visible effect
ASTM #3 Oil	No visible effect	No visible effect
Mil 5606 Oil	No visible effect	No visible effect
Skydrol® 500B-4	No visible effect	Printing removed
Super Agitene®	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect
10% Sodium Hydroxide Solution	No visible effect	No visible effect
10% Sulfuric Acid Solution	No visible effect	No visible effect

Product testing, customer feedback, and history of similar products, support a customerperformance 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 degrees 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.
Freon® is a registered trademark of Du Pont de Nemours, E.I. and Company.
LaserTab® is a registered trademark of Brady Worldwide, Inc.
Polyken™ is a trademark of Testing Machines Inc.
Skydrol® is a registered trademark of the Monsanto Company
Sunlighter™ is a trademark of the Test Lab Apparatus Company
Super Agitene® is a registered trademark of Graymills Corporation
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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