Technical Data Sheet

BRADY B-707A LASERTAB® MARKERS

TDS No. B-707A
Effective Date: 10/21/2020

Description:

GENERAL
Print Technology: Laser Printable
Material Type: Polyester
Finish: Matte
Adhesive: Permanent Acrylic

APPLICATIONS
B-707A 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.

REGULATORY
For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites:
In Canada: www.bradycanada.ca/weee-rohs
In Europe: www.bradyeurope.com/rohs
In Japan: www.brady.co.jp/products/labelsuse/rohs
All other regions: www.bradyid.com/weee-rohs

SPECIAL FEATURES:
B-707A 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.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total (excluding liner)	 0.0026 inch (0.0660 mm) 0.0020 inch (0.0508 mm) 0.0046 inch (0.1168 mm)
Adhesion to: -Stainless Steel -Textured ABS	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	 46 oz/inch (50 N/100 mm) 56 oz/inch (61 N/100 mm) 9 oz/inch (10 N/100 mm) 16 oz/inch (18 N/100 mm)
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/inch (683 N/100 mm), 77% 53 lbs/inch (928 N/100 mm), 65%
Dielectric Strength	ASTM D 1000	7500 volts

Performance Properties were tested on B-707A samples printed on a laser printer. Printed samples were laminated to an aluminum panel and allowed to dwell 24 hrs before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 267°F (130°C)	Very slight adhesive ooze
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	ASTM G155, Cycle 1, Dry 30 days in Xenon Test Chamber	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weather-Ometer®	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples were printed on a laser jet printer, laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Test conducted at room temperature. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. After the final immersion, samples were rubbed 10 times with a cotton swab saturated with test fluid.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	EFFECT TO LABEL STOCK	EFFECT TO LASER PRINT	
		WITHOUT RUB	WITH RUB
Methyl Ethyl Ketone	Slight adhesive ooze	5	5
Toluene	Slight adhesive ooze	2	5
Isopropyl Alcohol	Slight adhesive ooze	1	1
Mineral Spirits	No visible effect	1	1
JP-8 Jet Fuel	Very slight adhesive ooze	1	1
IRM 903 Oil	No visible effect	1	1
Mil-H-5606 Oil	No visible effect	1	1
Skydrol® 500B-4	Moderate adhesive ooze	2	5
Super Agitene®	Very slight adhesive ooze	1	1
Deionized Water	No visible effect	1	1
3% Alconox® Detergent	No visible effect	1	1
10% Sodium Hydroxide Solution	No visible effect	1	1
10% Sulfuric Acid Solution	No visible effect	1	1

Rating Scale:
1= no visible effect
2= slight smear or print removal, detectable but minimal smear
3= moderate smear or print removal (print still legible)
4= severe smear or print removal (print illegible or just barely legible)
5= complete print and/or topcoat removal
NP= print removed prior to rub

Shelf Life:
Shelf life is 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. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

Trademarks:
Alconox® is a registered trademark of Alconox Co.
Lasertab® is a registered trademark of Brady Worldwide Inc.
Skydrol® is a registered trademark of the Monsanto 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.)
Weather-Ometer® is a registered trademark of Atlas Material Testing Technology LLC
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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WARRANTY

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