BRADY
WHEN PERFORMANCE MATTERS MOST™

Technical Data Sheet

BRADY B-115 POLYMER COATED CLOTH TAPE

TDS No. B-115
Effective Date: 01/09/2007

Description:
Brady B-115 is a polymer coated cloth with a matte ink jet printable topcoat and a rubber-based pressure sensitive adhesive.

Brady B-115 is a general purpose material for labeling and marking applications requiring an ink jet printable surface. B-115 is a good wire or cable marker material. Hewlett Packard's 600 Series or newer black inks are recommended for use with this product.

Brady B-115 has good smudge, oil, water, and fade resistance. B-115 has good flexibility for wrapping around curved surfaces.

Brady B-115 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Total Thickness	ASTM D 1000	0.0108 inch (0.274 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	 63 oz/in (69 N/100 mm) 70 oz/in (77 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	26 oz/in (28 N/100 mm) 29 oz/in (32 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	60 oz/in (66 N/100 mm) 66 oz/in (72 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	32 oz (920 g)
Application Temperature	Lowest application temperature to stainless steel	50°F (10°C)

The following testing is performed with the B-115 printed with the Hewlett Packard's 600 series ink. All samples allowed to dwell 24 hours prior to testing. Samples were tested on flat aluminum panels.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 175°F (80°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 on print. Moderate topcoat yellowing.*
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect on print. Moderate chalking when rubbed.
Salt Fog Resistance	ASTM B 117 30 days in 5% salt fog solution chamber	No visible effect.
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306)	HP600 series ink still legible after 500 cycles.

*This product is not recommended for outdoors or environments with high UV exposure.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples were printed with HP 600 series inks, laminated to flat aluminum panels, and dwelled 24 hours prior to test. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. After the final immersion the flat samples were rubbed with cotton swabs. Testing was conducted at room temperature.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	APPEARANCE OF LABEL STOCK	APPEARANCE OF HEWLETT PACKARD'S 600 SERIES BLACK INK

Methyl Ethyl Ketone	Label came off panel, topcoat dissolved	Topcoat dissolved, print removed when rubbed.
1,1,1-Trichloroethane	Adhesive softened	No visible effect
Toluene	Adhesive softened	Slight smear when rubbed
Freon® TMS	No visible effect	Slight smear when rubbed
Isopropyl Alcohol	No visible effect	Slight smear when rubbed
Mineral Spirits	No visible effect	No visible effect
JP-8 Jet Fuel	No visible effect	No visible effect
ASTM #3 Oil	No visible effect	No visible effect
Mil 5606 Oil	Label turned pink	No visible effect
Skydrol® 500B-4	Topcoat and adhesive softened	Print removed when rubbed
Super Agitene®	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	Moderate smear of print during immersion
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 degrees 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.
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.)
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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