

BRADY B-107 MATTE WHITE POLYESTER LABEL STOCK

TDS No. B-107
Effective Date: 02/05/2007

Description:

GENERAL

Print Technology: Ink jet
Material Type: White polyester
Finish: Matte
Adhesive: Permanent Acrylic

APPLICATIONS

General purpose high performance labels, barcode labels and IC identification

INK RECOMMENDATIONS

Hewlett Packard's 600 Series or newer black inks

REGULATORY APPROVALS

Brady B-107 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

SPECIAL FEATURES

Brady B-107 has good smudge, solvent and water resistance along with good temperature performance.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Topcoat -Film -Adhesive -Total	0.0015 inch (0.038 mm) 0.0020 inch (0.051 mm) 0.0010 inch (0.025 mm) 0.0045 inch (0.114 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	32 oz/in (35 N/100 mm) 40 oz/in (44 N/100 mm)
-Textured ABS	20 minute dwell 24 hour dwell	8 oz/in (9 N/100 mm) 9 oz/in (10 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	21 oz/in (23 N/100 mm) 26 oz/in (28 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	30.5 oz (866 g)
Application Temperature	Lowest application temperature to stainless steel	50°F (10°C)

The following testing is performed with the B-107 printed with 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 293°F (145°C)	No yellowing up to 120°C; slight topcoat yellowing at 130°C and 145°C. No print fade was observed.
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 print fade. Very slight topcoat yellowing.
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect to print. Moderate topcoat chalking when rubbed.
Salt Fog Resistance	ASTM B 117	No visible effect

	30 days in 5% salt fog solution chamber	
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 2500 g/arm (Fed. Std. 191A, Method 5306)	HP600 Series ink still legible after 400 cycles.
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 BLACK 600 SERIES INK
Methyl Ethyl Ketone	Slight adhesive ooze	Moderate smear when rubbed
1,1,1-Trichloroethane	Slight adhesive ooze	Slight smear when rubbed
Toluene	Slight adhesive ooze	Moderate 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	Slight adhesive ooze	Moderate smear 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 when rubbed
10% Sodium Hydroxide Solution	No visible effect	Severe smear when rubbed
10% Sulfuric Acid Solution	No visible effect	No visible effect

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 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.

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 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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