B-609 - Technical Data Sheet

BRADY B-609:
PAPER LABEL STOCK

TDS No. B-609

Effective Date: 01-Jul-2011

Description:

GENERAL

Print Technology: Dot Matrix

Material Type: White 70# Paper

Finish: Matte

Adhesive: Permanant Rubber

APPLICATIONS

General purpose material for write-on printable labels. B-609 is designed for applications requiring a paper label that cannot be removed intact.

RECOMMENDED RIBBONS

Brady Series 2000 and 5000

REGULATORY

Brady B-609 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

SPECIAL FEATURES

On many surfaces, the adhesion strength of the B-609 adhesive is greater than the strength of the paper stock. The white ink receptive coating on B-609 provides good smoothness, contrast, and smear resistance for barcode applications.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Total Thickness	ASTM D 1000	0.0043 inch (0.109 mm)
Adhesion to: -Stainless Steel -Textured ABS -Polypropylene	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	 Label destroys upon removal after both 20 minutes and 24 hours. 13 oz/in (14.2 N/100 mm) 18 oz/in (19.7 N/100 mm) Label destroys upon removal after both 20 minutes and 24 hours.
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	28 oz (800 g)
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction -Cross Direction	34 lbs/in (595 N/100 mm), 4% 18 lbs/in (315 N/100 mm), 8%
Application Temperature	Lowest application temperature to stainless steel	50°F (10°C)

The following testing is performed with B-609 samples printed with the Brady Series 2000 and Series 5000 ribbons and applied to aluminum panels. All samples allowed to dwell 24 hours prior to testing.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 158°F (70°C)	Very slight browning of paper at 70°C, no visible effect to print.
Low Service Temperature	30 days at -40°F (-40°C)	No visible effect to tape or printing at -40°C.
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect to tape or printing.
UV Light Resistance	30 days in UV Sunlighter™ 100	Slight Series 2000 and 5000 print fade
Abrasion Test	Taber Abraser, CS-10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306)	Series 2000 print still legible after 50 cycles. Series 5000 print still legible after 100 cycles.

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:
Polyken™ is a trademark of Testing Machines Inc.
Sunlighter™ is a trademark of the Test Lab Apparatus Company
ASTM: American Society for Testing and Materials (U.S.A.)
All U.S. Conventional Units are mathematically derived from the S.I. (metric) 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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