

BRADY B-121 REMOVABLE PAPER LABEL STOCK

TDS No. B-121
Effective Date: 06/29/2011

Description:

GENERAL

Print Technology: Dot Matrix
Material Type: 50# Paper
Finish: Matte
Adhesive: Removable Rubber Based Pressure Sensitive Adhesive

APPLICATIONS

Applications requiring an inexpensive removable paper label such as maintenance and inventory labels.

RECOMMENDED RIBBONS

Brady Series R2000
Brady Series R5000

REGULATORY APPROVALS

Brady B-121 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

SPECIAL FEATURES

The bright white paper stock gives good print contrast and smudge resistance. The adhesive has good adhesion and tack, while maintaining removable characteristics.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000	0.0050 inch (0.127 mm)
Adhesion to:	ASTM D 1000*	
-Stainless Steel	20 minute dwell 24 hour dwell	19 oz/in (21 N/100 mm) 19 oz/in (21 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	22 oz/in (24 N/100 mm) 26 oz/in (28 N/100 mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	20.8 oz (590 g)
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction -Cross Direction	47 lbs/in (823 N/100 mm), 3% 19 lbs/in (333 N/100 mm), 3%
Application Temperature	Lowest application temperature to stainless steel	50°F (10°C)

*B-121 samples supported with 1.0 mil overlamine film so paper would not tear during 180 degree peel.

B-121 samples tested for Performance Properties printed with both Brady Series R2000 and Series R5000 ribbons. Results listed below were identical for both ribbons.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
Long Term High Service Temperature	30 days at various temperatures	No visible effect to label or printing at 60°C. Slight discoloration at 90°C; moderate discoloration at 100°C but label is still functional.
Long Term Low Service Temperature	30 days at -70°C (-94°F)	No visible effect to tape or printing.
Humidity Resistance	30 days at 37°C (100°F), 95% R.H.	No visible effect to tape or printing.
UV Light Resistance	ASTM G155, Cycle 1 (without water) 30 days in Q-Sun Xenon Test Chamber	Moderate paper discoloration and slight print fade.

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.

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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Brady North America | 6555 W. Good Hope Rd | Milwaukee, WI 53223 | USA | Tel: 414-358-6600 | Fax: 800-292-2289