Technical Data Sheet

BRADY B-402 THERMAL TRANSFER PRINTABLE WHITE PAPER LABEL STOCK

TDS No. B-402
Effective Date: 10/18/2007

Description:

GENERAL
Print Technology: Thermal transfer
Material Type: Paper
Finish: White
Adhesive: Permanent acrylic

APPLICATIONS
General purpose labeling applications requiring a low cost label material.

RECOMMENDED RIBBONS
Brady Series R6100

REGULATORY APPROVALS
Brady B-402 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Label Stock (paper and adhesive) -Release Liner	0.0035 inch (0.089 mm) 0.0025 inch (0.063 mm)
Adhesion to: - Stainless Steel - Textured ABS - Polypropylene - Corrugated cardboard	ASTM D 1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	Destroys upon removal after 20 minutes and 24 hour dwell 34 oz/in (37 N/100 mm) 34 oz/in (37 N/100 mm) Destroys upon removal after 20 minutes and 24 hour dwell Destroys upon removal after 20 minutes and 24 hour dwell *
Tack	ASTM D 2979 Polyken™ Probe Tack (1 second dwell, 1 cm/sec separation)	32 oz (920 grams)
Drop Shear	PSTC-7	3 hours
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction	32 lbs/inch (560 N/100 mm), 3%

* Removal of label results in top layer of cardboard being peeled off.

Performance properties tested on B-402 printed with Series R6100 on BradyPrinter™ THT Model 300 MVP thermal transfer printer. Printed samples of B-402 were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environmental conditions.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
Short Term High Service Temperature	5 minutes at elevated temperatures	No visible effect at 140°C (284°F), at 180°C (350°F) label discolors slightly but still is functional.
Long Term High Service Temperature	30 days at elevated temperatures	No visible effect at 60°C (140°F), at 70°C (158°F) label discolors slightly but still is functional

Low Service Tem perature	30 days at -70°C (-94°F)	No visible effect
Humidity Resistance	30 days at 100°F, 95% R.H.	No visible effect
UV Light Resistance	30 days in UV Sunlighter™ 100	Label exhibits slight to moderate discoloration.
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306)	Moderate print removal but print is legible after 100 cycles

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:
BradyPrinter™ is a trademark of Brady Worldwide, Inc.
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.)
PSTC: Pressure Sensitive Tape Council (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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