

B-7423 SATIN WHITE POLYESTER THERMAL TRANSFER PRINTABLE LABEL STOCK

TDS No. B-7423
Effective Date: 10/23/2012

Description:

GENERAL

Print Technology: Thermal transfer

Material Type: White Polyester

Finish: Satin

Adhesive: Permanent Acrylic

APPLICATIONS

B-7423 is specifically designed for auto apply application and also used as post process label for printed circuit boards .

RECOMMENDED RIBBONS

Brady Series R6200 and R7961 (black)

Brady Series R4400 (red, blue, green and white)

Brady Series R6000 Halogen Free (alternate)

Brady Series R6000 (alternate)

REGULATORY APPROVALS

Brady B-7423 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC

AGENCY APPROVALS

Brady B-7423 is a UL Recognized component when printed with Brady series R-6000, R-6000HV, R-6000 Halogen Free, R-6200 and R-7961.

See UL file MH17388 for specific details.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	0.0020 inch (0.051 mm) 0.0005 inch (0.013 mm) 0.0025 inch (0.064 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	40 oz/in (44 N/100 mm) 46 oz/in (50 N/100 mm)
-Smooth ABS	20 minute dwell 24 hour dwell	33 oz/in (36 N/100 mm) 39 oz/in (43 N/100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	14 oz/in (15 N/100 mm) 14 oz/in (15 N/100 mm)
-Glass	20 minute dwell 24 hour dwell	39 oz/in (43 N/100 mm) 41 oz/in (45 N/100 mm)
Tensile Strength and Percent Elongation at Break	ASTM D 1000 - Machine Direction - Cross Direction	40.3 lbs/in , 88% elongation 39.5 lbs/in, 75% elongation
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	30 oz (850g)

Performance properties tested on B-7423 printed with alphanumerics using the following: a 10 mil X dimension barcode, R6000, R6200 and R7961 using a BradyPrinter™ THT 300 MVP Series Thermal Transfer Printer.

Printed samples of B-7423 were laminated to aluminum before exposure to the indicated environmental condition.

Results the same for all ribbons unless noted otherwise.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
Long Term High Service Temperature	30 days at various temperatures	No visible effect at 230°F (110°C). Slight discoloration at 293°F (145°C). Moderate discoloration at 320°F (160°C); label is still functional.

Low Service Temperature	30 days at -94°F (-70°C)	No visible effect
Short Term High Service Temperature	5 minutes at various temperatures	No visible effect at 356°F (180°C). Slight label shrinkage at 392°F (200°C); label is functional. Label becomes non-functional at 446°F (230°C) due to label shrinkage.
Humidity Resistance	30 days at 100°F (37°C) and 95% R.H.	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Slight discoloration
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 250 g/arm (Fed. Std. 191A, Method 5306)	R6000, R6200 and R7961 print is still legible after 100 cycles.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples printed with the R6000, R6000 Halogen Free, R6200 and R7961 Series ribbon using a BradyPrinter™ THT Model 300 MVP Series Thermal Transfer Printer. Tests were conducted after a 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. After the final immersion, the printed samples were rubbed 10 times with a cotton applicator saturated with the test fluid.

SUBJECTIVE OBSERVATION OF VISUAL CHANGE							
		R6000 / R6000 Halogen Free		R6200		R7961	
CHEMICAL REAGENT	EFFECT TO LABEL STOCK	WITHOUT RUB	WITH RUB	WITHOUT RUB	WITH RUB	WITHOUT RUB	WITH RUB
Methyl Ethyl Ketone	No visible effect	1	5	3	5	2	5
Isopropyl Alcohol	No visible effect	1	1	1	3	1	4
Mineral Spirits	No visible effect	1	1	1	1	1	1
SAE 20 Wt Oil	No visible effect	1	1	1	1	1	1
10% Sodium Hydroxide	No visible effect	1	1	1	1	1	1
10% Sulfuric Acid	No visible effect	1	1	1	1	1	1
5% Alconox® Detergent	No visible effect	1	1	1	1	1	1
Formula 409®	No visible effect	1	1	1	1	1	1

Rating Scale:

- 1 = no visible effect
- 2 = sight smear or print removal, detectable but minimal smear
- 3 = moderate smear or print removal (print still legible)
- 4 = severe smear or print removal (print illegible or just barely legible)
- 5 = complete print removal

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:

BradyPrinter™ is a trademark of Brady Worldwide, Inc.
 Formula 409® is a registered trademark of the Chlorox Company
 Polyken™ is a trademark of Testing Machines Inc.
 SAE: Society of Automotive Engineers (U.S.A.)

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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