

BRADY B-7351 THERMAL TRANSFER PRINTABLE TAMPER-RESISTANT WHITE VINYL LABEL STOCK

TDS No. B-7351
Effective Date: 05/29/2015

Description:

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GENERAL

Print Technology: Thermal Transfer
Material Type: Tamper-Resistant Vinyl
Finish: Satin White
Adhesive: Acrylic

APPLICATIONS

Rating and serial plates that require high performance and resistance to product tampering

RECOMMENDED RIBBONS

The recommended ribbons are the Thermal Transfer Ribbon R-6000 Halogen Free and R-6000

AGENCY APPROVALS

Brady B-7351 is RoHs compliant to RoHS directive 2011/65/EU

SPECIAL FEATURES

Brady B-7351 is designed to fracture easily in order to show signs of product tampering and to prevent one-piece label removal. Use caution when removing from liner as material is fragile.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Total	0.065 mm (0.0026 inches)
Adhesion to: -Stainless Steel -Smooth ABS -Polyethylene -Polypropylene -Polycarbonate -Polyvinylchloride	ASTM D 1000 20 minute dwell 24 hour dwell	Label destroys upon removal after both 20 minutes and 24 hours for all test surfaces
Application Temperature	Lowest application temperature	4°C (39°F)

Samples were printed with alphanumerics and barcodes using the Bradyprinter™ THT Model 600X -Plus and the Brady R-6000, R-6200, R-7961 and R-4900 ribbons. Samples applied to aluminum panels and allowed to dwell 24 hours at room temperature prior to testing. Unless noted otherwise, results were the same for all ribbons.

Performance Properties	Test Methods	Typical Results
Long Term Service Temp	30 days at various temperatures (80°C and 100°C)	No visible effect to the print and the label at 80°C. At 100°C, slight discoloration of the label (but still functional) and very slight fading of R-7961 printing.
Low Service Temp	30 days at -40°C (-40°F)	No visible effect
Short Term Service Temp	5 minutes at various temperatures (180°C and 240°C)	No visible effect to the label at 180°C, only very slight fading of R-7961 printing. Severe discoloration of the label at 240°C , but label still functional.
Humidity Resistance	30 days at 37°C (100°F), 95% R.H.	No visible effect
UV Light Resistance	30 days in UV (Q-Sun Xenon Test Chamber)	No visible effect
Weatherability	ASTM G154 30 days in QUV	No visible effect

Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 500 g/arm, 100 cycles (Fed. Std. 191A, Method 5306)	R-6000: Very slight print removal. R-4900: Slight print removal. Print still legible. R-6200, R-7961: Moderate print removal. Print still legible.
PERFORMANCE PROPERTY		SOLVENT RESISTANCE

Samples were printed with alphanumerics and barcodes using the Bradyprinter™ THT Model 600X-Plus and the Brady R-6000 and R-6000 Halogen Free ribbons. Samples applied to aluminum panels and allowed to dwell 24 hours at room temperature prior to testing. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. After final immersion samples rubbed 10 times with cotton swabs saturated in test fluids.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	EFFECT TO LABEL STOCK	R6000 / R6000 Halogen Free
Isopropyl Alcohol	No visible effect	No visible effect without/with rub.
Jet Fuel JP4	No visible effect	No visible effect without/with rub.
White Spirit	No visible effect	No visible effect without/with rub.
SAE-15W20 Motor Oil	No visible effect	No visible effect without/with rub.
Gasoline	Slight adhesive ooze	No visible effect without rub. Slight print removal with rub.
Deionized Water	No visible effect	No visible effect without/with rub.
5% Sodium Hydroxide Solution	No visible effect	No visible effect without/with rub.
10% Sulfuric Acid Solution	No visible effect	No visible effect without/with rub.

B-7351 is not recommended for use in harsh solvents such as MEK, Acetone, and 1,1,1-Trichloroethane.

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 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:

ASTM: American Society for Testing and Materials (U.S.A.)
 BradyPrinter™ is a trademark of Brady Worldwide, Inc.
 Fed. Spec.: United States Federal Specification (U.S.A.)
 S. I.: International System of Units
 SAE: Society of Automotive Engineers (U.S.A.)
 TLS2200® is a registered trademark of Brady Worldwide, Inc.

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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

WARRANTY

Brady products are sold with the understanding that the buyers will test them in actual use and determine for themselves their adaptability to their intended uses. Brady warrants to the buyers that its products are free from defects in material and

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