

BRADY B-359 THERMAL TRANSFER PRINTABLE TAMPER-RESISTANT WHITE ACETATE LABEL STOCK

TDS No. B-359
Effective Date: 06/29/2011

Description:

GENERAL

Print Technology: Thermal Transfer
Material Type: Tamper-Resistant Acetate
Finish: Glossy White
Adhesive: Acrylic

APPLICATIONS

Tamper-evident labeling for package seals and closures. Intended for indoor use only.

RECOMMENDED RIBBONS

Brady Series R6200

AGENCY APPROVALS

N.A.

SPECIAL FEATURES

Brady B-359 is an easy to handle label material that is designed to fracture upon removal, showing signs of product tampering and preventing one-piece label removal. For additional tamper prevention, tamper slits can be incorporated into the label.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 - Total (excluding liner)	.0027 inches (.0688 mm)
Adhesion to: - Stainless Steel - Painted Enamel - Polypropylene - Glass	ASTM D 1000 20 minute dwell 24 hour dwell	Label destroys upon removal after both 20 minutes and 24 hours for all test surfaces
Adhesion to: - Textured ABS	ASTM D 1000 20 minute dwell 24 hour dwell	Label with tamper slits destroys upon removal after both 20 minutes and 24 hours for all test surfaces.
Tensile Strength and Elongation	ASTM D882	19 lbs/in (340 N/100 mm), 5%
Application Temperature	Minimum application temperature	32°F (0°C)

Performance properties testing on B-359 printed with Series 6200 ribbon and a BradyPrinter™ THT Model 300X-Plus thermal transfer printer. Printed samples of B-359 were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environmental conditions.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
Long Term Service Temperature	30 days at various temperatures	No visible effect to label or print at 140°F (60°C). Slight discoloration at 176°F (80°C) but still functional. No visible effect to print.
Low Service Temperature	30 days at -40°F (-40°C)	No visible effect to label or print.
Short Term Service Temperature	5 minutes at various temperatures	No visible effect to label or print at 248°F (120°C). Slight discoloration at 302°F (150°C) but still functional. No visible effect to print.
Humidity Resistance	30 days at 100°F (37°C), 95% RH	Adhesive begins to delaminate from film. To improve a tamper feature, tamper slits in label are recommended. No visible effect to print.
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc	Suitable for indoor use only

Samples printed with a BradyPrinter™ THT Model 300X-Plus using a Brady Series 6200 ribbon and then laminated to aluminum panels. Test was conducted at room temperature after 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minutes recovery periods. After final immersion, samples were rubbed 10 times with cotton swabs saturated in test fluids.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	LABEL STOCK SUBSTRATE / ADHESIVE	R6200 PRINTING EFFECTS OF IMMERSION	R6200 PRINTING COTTON SWAB RUBS
Distilled Water	Slight edge lift	No visible effect	No visible effect
Isopropyl Alcohol	Slight edge lift	No visible effect	Print removed
Mineral Spirits	No visible effect	No visible effect	No visible effect
Formula 409® Cleaner	Severe edge lift	No visible effect	No visible effect
Northwoods™ Buzz Saw Citrus Degreaser	Moderate edge lift	Slight print removal	Label tore during rubbing – print removed

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.
 Northwoods™ is a trademark of the Superior Chemical Corporation.
 Formula 409® is a registered trademark of the Clorox Company
 ASTM: American Society for Testing and Materials (U.S.A.)
 S. I.: International System of Units
 All S.I. units (metric) are mathematically derived from 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.

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 workmanship, but limits its obligation under this warranty to replacement of the product shown to Brady's satisfaction to have been defective at the time Brady sold it. This warranty does not extend to any persons obtaining the product from the buyers. This warranty is in lieu of any other warranty, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose, and of any other obligations or liability on Brady's part. Under no circumstances will Brady be liable for any loss, damage, expense, or consequential damages of any kind arising in connection with the use, or inability to use, Brady's products.

