

BRADY B-358 THERMAL TRANSFER PRINTABLE TAMPER-RESISTANT CLEAR ACETATE LABEL STOCK

TDS No. B-358
 Effective Date: 06/29/2011

Description:

GENERAL

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

APPLICATIONS

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

RECOMMENDED RIBBONS

Brady Series R6200 and R4400 white

REGULATORY/AGENCY APPROVALS

Brady B-358 is RoHS compliant to 2005/618/EC MCV amendment to RoHS Directive 2002/95/EC.

SPECIAL FEATURES

Brady B-358 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 - Textured ABS - 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
Tensile Strength and Elongation	ASTM D882	19 lbs/in (338 N/100 mm), 5%
Application Temperature	Minimum application temperature	45°F (7°C)

Performance properties testing on B-358 printed with Series 6200 ribbon and a BradyPrinter™ THT Model 300X-Plus II thermal transfer printer. Printed samples of B-358 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 -94°F (-70°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	No visible effect to label or print.
UV Light Resistance	ASTM G155, Cycle 1 dry 30 days in Q-Sun Xenon Test Chamber	Label shrinks slightly. No visible effect to print.
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Suitable for indoor use only

Samples printed with a BradyPrinter™ THT Model 300X-Plus II 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	No visible effect	No visible effect	No visible effect
Isopropyl Alcohol	Slight edge lift	No visible effect	Print removed
Mineral Spirits	No visible effect	No visible effect	Slight print removal
Formula 409® Cleaner	Severe edge lift	No visible effect	Moderate print removal
Northwoods™ Buzz Saw Citrus Degreaser	Severe 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!
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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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