

BRADY B-362 THERMAL TRANSFER PRINTABLE TAMPER-RESISTANT METALLIZED VINYL LABEL STOCK

TDS No. B-362
Effective Date: 07/28/2015

Description:

GENERAL

Print Technology: Thermal Transfer
Material Type: Tamper-Resistant Metallized Vinyl
Finish: Glossy Silver
Adhesive: Acrylic

APPLICATIONS

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

RECOMMENDED RIBBONS

Brady series R6000 Halogen Free black and R4400 colored (red, blue, and green)

REGULATORY APPROVALS

Brady B-362 is RoHS compliant to RoHS Directive 2011/65/EU.

SPECIAL FEATURES

Brady B-362 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. For best tamper evidency, a 24 hour room temperature dwell is recommended.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Total (excludes liner)	0.0025 inch (0.064 mm)
Adhesion to: -Stainless Steel -Polypropylene -Smooth ABS -Aluminum -Glass -Painted Enamel	ASTM D 1000 24 hour dwell	Label destroys upon removal
Tensile Strength and Elongation	ASTM D 1000	9 lbs/in (158 N/100 mm), 2%

Performance properties tested on B-362 printed with Series R6000 Halogen Free ribbon. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environments.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at various temperatures	No visible effect to label at 176°F (80°C). Slight discoloration at 194°F (90°C); moderate discoloration at 212°F (100°C), but label is still functional.
Low Service Temperature	30 days at -94°F (-70°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect
UV Light Resistance	ASTM G155, Cycle 1, Dry 30 days in Q-Sun Xenon Test Chamber	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weather-Ometer®	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with R6000 Halogen Free ribbon. Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 5 cycles of 10 minute immersions in the specified chemical 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		
	LABEL STOCK SUBSTRATE/ ADHESIVE	R6000 Halogen Free PRINTING EFFECTS OF IMMERSION	R6000 Halgen Free PRINTING COTTON SWAB RUBS
Methyl Ethyl Ketone	Label no longer adhered to surface	Label no longer adhered to surface	Label no longer adhered to surface
Toluene	Label no longer adhered to surface	Label no longer adhered to surface	Label no longer adhered to surface
Isopropyl Alcohol	No visible effect	No visible effect	No visible effect
Mineral Spirits	No visible effect	No visible effect	No visible effect
JP-8 Jet Fuel	No visible effect	No visible effect	No visible effect
SAE 20 WT Oil	No visible effect	No visible effect	No visible effect
Mil 5606 Oil	No visible effect	No visible effect	No visible effect
Gasoline	Slight adhesive ooze	No visible effect	Slight print fade
Rust Veto® 342	No visible effect	No visible effect	No visible effect
Skydrol® 500B-4	Some silver color removed	No visible effect	Complete print removal, Silver color removed
Super Agitene®	No visible effect	No visible effect	No visible effect
Deionized Water	No visible effect	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect	No visible effect
10% Sodium Hydroxide Solution	No visible effect	No visible effect	No visible effect
10% Sulfuric Acid Solution	No visible effect	No visible effect	No visible effect

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 (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:

ASTM: American Society for Testing and Materials (U.S.A.)
 Alconox® is a registered trademark of Alconox Co.
 All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units
 Rust Veto® is a registered trademark of Houghton Technical Corp.
 S. I.: International System of Units
 SAE: Society of Automotive Engineers (U.S.A.)
 Skydrol® is a registered trademark of Solutia Inc.
 Super Agitene® is a registered trademark of Graymills Corporation
 Weather-Ometer® is a registered trademark of Atlas Material Testing Technology LLC

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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