

BRADY B-7563 THERMAL TRANSFER PRINTABLE METALLIZED POLYESTER LABEL STOCK

TDS No. B-7563
Effective Date: 05/29/2015

Description:

GENERAL

Print Technology: Thermal transfer
Materials Type: Metallized polyester
Finish: Satin metallized
Adhesive: Permanent acrylic

APPLICATIONS

Rating and serial plates using alphanumerics, barcodes, graphic symbols and logos that require name plate quality.

RECOMMENDED RIBBONS

Brady series R7960
Brady series R7961
Brady series R4900
Brady series R6000 Halogen Free

AGENCY APPROVALS

B-7563 is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with Brady Series R7960, R7961 and R4900 ribbon. See UL file MH173788 for specific details. UL information can be accessed on line at UL.com. Search in *Certifications* area.

ROHS Environmental Compliance

Brady B-7563 is RoHS compliant to RoHS directive 2011/65/EU

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	0.002 inch (0.050 mm) 0.001 inch (0.025 mm) 0.003 inch (0.075 mm)
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell 24 hour dwell	53 oz/inch (58 N/100 mm) 61 oz/inch (67 N/100 mm)
- Polypropylene	20 minutes dwell 24 hour dwell	46 oz/inch (50 N/100 mm) 48 oz/inch (53 N/100 mm)
- Smooth ABS	20 minutes dwell 24 hour dwell	69 oz/inch (76 N/100 mm) 60 oz/inch (66 N/100mm)
Tack	ASTM D 2979 Polyken™ Probe Tack 1 second dwell	12 oz (344 g)

Performance properties tested on B-7563 printed with Series R7960, R7961 and R4900 ribbons using the Bradyprinter™ THT Model 600X-Plus thermal transfer printer. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environments. Unless noted, results are the same for the tested ribbons.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at 135°C	No visible effect
Low Service Temperature	30 days at -40°C	No visible effect
Humidity Resistance	30 days at 100°F (37°C) and 95% relative humidity.	No visible effect
UV Light Resistance	30 days in UV Light Chamber	No visible effect
Weatherability	ASTM G53 30 days in QUV	Very slight yellowing , label remains functional

Abrasion Resistance	Taber Abraser, CS-10 grinding wheels, 250 g/arm (Fed. Std. 191A)	Appearance to print after 100 cycles: R7960 : severe print removal; print barely legible R7961 : moderate print removal; print illegible R4900 : print removal but print remains legible
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PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples printed with Series R7960, R7961 and R4900 using a BradyPrinter™ Model 600X-Plus thermal transfer printer. Samples laminated to aluminium panels and allowed to dwell 24 hours prior to testing. Test conducted at room temperature. Testing consisted of 5 cycles of 10 minute immersions in the specified test fluid followed by a 30 minute recovery period. After final immersion, samples rubbed 10 times with cotton swab saturated with test fluid.

CHEMICAL REAGENT	R7960	R7961	R6000 Halogen free	R4900
Isopropanol	No visible effect	Print gone	No visible effect	Print gone
Iso-octane	No visible effect	No visible effect	No visible effect	No visible effect
n-hexane	No visible effect	No visible effect	No visible effect	No visible effect
Toluene	Print gone	Print gone	Print gone	Print gone
1,1,1-trichloroethane	Print gone	Print gone	NA	Print gone
Deionized water	No visible effect	No visible effect	No visible effect	No visible effect
10% NaCl	No visible effect	No visible effect	No visible effect	No visible effect
Acetone	Print gone	Print gone	Print gone	Print gone
MEK	Print gone	Print gone before rub test	Print gone	Print gone before rub test
10% H ₂ SO ₄	No visible effect	No visible effect	No visible effect	No visible effect
Alcohol mix*	No visible effect	No visible effect	No visible effect	No visible effect
10% NaOH	No visible effect	No visible effect	No visible effect	No visible effect
Skydrol 500B-4	Print gone	Print gone	Print smear, but still legible	Print gone
Ethanol	Print gone	Print gone	No visible effect	No visible effect
ASTM#3oil	No visible effect	Print gone	No visible effect	No visible effect
Diesel	No visible effect	No visible effect	No visible effect	No visible effect
Gasoline lead-free	Print gone	Print gone	No visible effect	Print gone

Alcohol mix* : 50% Ethyl alcohol, 30% Methyl Alcohol, 20% Deionized water

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.
Polyken™ is a trademark of Testing Machines Inc.
Skydrol® is a registered trademark of the Monsanto Company
ASTM: American Society for Testing and Materials (U.S.A.)
UL: Underwriters Laboratories Inc. (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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