

BRADY B-7605 THERMAL TRANSFER PRINTABLE SYNTHETIC WHITE LABEL STOCK

TDS No. B-7605

Effective Date: 03/06/2019

Description:

GENERAL

Print Technology: Thermal transfer

Materials Type: White synthetic polyethylene/polystyrene

Finish: Matte

Adhesive: Permanent rubber

APPLICATIONS

B-7605 is recommended for indoor use.

Limited outdoor use (1-2 months).

RECOMMENDED RIBBONS

Brady Series R7950

Brady Series R7961

REGULATORY APPROVALS

For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites:

In Canada: www.bradycanada.ca/weee-rohs

In Europe: www.bradyeurope.com/rohs

In Japan: www.bradyc.co.jp/products/labelsuse/rohs

All other regions: www.bradyd.com/weee-rohs

SPECIAL FEATURES

B-7605 is a synthetic film with low internal strength and a high performance adhesive that prevents one piece removal from most surfaces.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 - Substrate - Adhesive - Total (excluding liner)	0.100 mm (0.0039 inch) 0.015 mm (0.0006 inch) 0.115 mm (0.0045 inch)
Tensile Strength	PSTC-31	120 N/100 mm (6.8 lbs/inch)
Elongation	PSTC-31	150%
Drop Shear	PSTC-7 (except use 1/2 x 1 inch sample)	20 hours
Tack	ASTM D 2979 Polyken™ Probe Tack (0.5 sec dwell, 1 cm/sec separation)	775 g
Adhesion to: - Stainless Steel - Polypropylene	ASTM D 1000 24 h dwell time 24 h dwell time	90 N/100 mm (82 oz/inch) 84 N/100 mm (76 oz/inch)

Performance properties tested on B-7605 printed with the Brady Series R7950 and the Brady Series R7961. Printed samples laminated to aluminium and unless noted, results are the same for both ribbons.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
Humidity Resistance	30 days at 37° C (100° F) and 95% R.H.	No visible effect
U.V. Light Resistance	30 days in Q-Sun XE-1	Slight discoloration
Weatherability	ASTM G154 30 days in QUV	Very slight discoloration, slight edge lifting
High Service Temperature	30 days at 50° C (122° F) 30 days at 80° C (176° F)	No visible effect Very slight discoloration
Low service Temperature	30 days at -40°C (-40°F)	No visible effect

Abrasion Resistance	Fed. Std. 191A, Method 5306 Taber Abraser, CS-10 grinding wheels, 500 g/arm	Print legible to: R7950: 75 cycles R7961: 50 cycles
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PERFORMANCE PROPERTIES	CHEMICAL RESISTANCE
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Samples printed with the Brady Series R7950 and the Brady Series R7961 ribbons. Samples laminated to aluminium panels and allowed to dwell 24 hours prior to testing. Test was conducted at room temperature. Testing consisted of five cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods.

Cotton swab rub after final immersion.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	EFFECT Without rub	R7950	R7961
Isopropanol	No visible effect	2	5
Iso-octane	No visible effect	1	1
Toluene	No visible effect to print, severe delamination	5	5
Acetone	No visible effect	5	5
MEK	No visible effect	5	5
n-Hexane	No visible effect	1	1
Alcohol mixture*	No visible effect	1	2
Sulphuric Acid (10%)	No visible effect	2	4
Sodium Hydroxide (5%)	No visible effect	2	4
Skydrol® 500 B 4	No visible effect	3	5
Diesel	No visible effect	1	2
White Spirit	No visible effect	2	2
Water	No visible effect	1	1
Sodium Chloride	No visible effect	1	1

* Alcohol Mix is 50% ethanol, 30% methanol, and 20% water by volume.

1 = no visible effect

2 = slight smear or print removal; detectable but minimal smear

3 = moderate smear or print removal (print still legible)

4 = severe smear or print removal

5 = complete print and/or topcoat removal

Shelf Life:

Shelf life is 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. It remains the responsibility of the user to assess the risk of using this product. We encourage customers to develop testing protocols that will qualify a product's fitness for use in their actual application.

Trademarks:

ASTM: American Society for Testing and Materials (U.S.A.)

Fed. Spec.: United States Federal Specification (U.S.A.)

PSTC: Pressure Sensitive Tape Council (U.S.A.)

Polyken™ is a trademark of Testing Machines Inc.

Skydrol® is a registered trademark of the Monsanto Company

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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