

BRADY B-7600 THERMAL TRANSFER PRINTABLE CLEAR POLYPROPYLENE LABEL STOCK

TDS No B-7600

Effective Date: June, 2019

Description:

GENERAL

Print Technology: Thermal Transfer

Material Type: Clear polypropylene

Finish: Glossy clear

Adhesive: Permanent Acrylic

APPLICATIONS

Laboratory identification such as vials, centrifuge tubes and test tubes.

RECOMMENDED RIBBONS

Brady Series R6000 Halogen Free

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.bradycanada.ca/weee-rohs

All other regions: www.bradycanada.ca/weee-rohs

Details:

PHYSICAL PROPERTIES	TEST METHODS	TYPICAL RESULTS
Thickness	ASTM D1000 -Total (excluding liner)	0.076 mm
Adhesion to:	ASTM D1000	
-Stainless Steel	20 minute dwell 24 hour dwell	29 N/100 mm 34 N/100 mm
-Glass	20 minute dwell 24 hour dwell	23 N/100 mm 24 N/100 mm
-Polypropylene	20 minute dwell 24 hour dwell	24 N/100 mm 32 N/100 mm

ENVIRONMENTAL PERFORMANCE PROPERTIES – LABEL APPLIED TO ROOM TEMPERATURE SURFACE

B-7600 samples were printed with R6000 Halogen Free black ribbon on i7100 printer. B-7600 samples were laminated to glass vials and polypropylene cryovials at room temperature and allowed to dwell 24 hours before exposure to the indicated environments.

ENVIRONMENT	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at elevated temperatures	No visible effect at 110°C, moderate yellowing at 120°C, label still functional

Low Service Temperature	30 days at -80°C and -196°C	no visible effect
Simulated Incubator	3 cycles of 1 hour at 70°C (158°F) and 3 hours at room temperature	no visible effect
Autoclave	5 cycles at 120°C (248°F) for 20 minutes/24 hours room temperature	no visible effect
Freezer	5 cycles of 16 hours at -80°C (-112°F) and 8 hours at room temperature	no visible effect
Liquid Nitrogen	5 cycles of 4 hours at -196°C (-320°F) and 20 hours at room temperature	no visible effect
Freezer to Boiling Water	1 hour at -80°C (-112°F) then placed in boiling water (100°C/212°F) for 10 minutes	no visible effect
Liquid Nitrogen to Boiling Water	1 hour at -196°C (-320°F) then placed in boiling water (100°C/212°F) for 10 minutes	no visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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The chemical resistance of B-7600 printed with R6000 Halogen Free black ribbon was tested at room temperature. The samples were adhered on aluminium sheets and allowed to dwell for 24 hours. The samples were immersed in the test solvent for 15 minutes and then removed and rubbed 10 times with a cotton swab saturated with the test fluid. The samples were rated for the amount of print removal using the rating scale below.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE	
	EFFECT TO LABEL STOCK/ADHESIVE	EFFECTS TO PRINTED IMAGE
Isopropyl Alcohol	No visible effect	4
Ethanol 96%	No visible effect	2
Methanol	No visible effect	2
Acetone	No visible effect	5
Toluene	Slight adhesive ooze and lifting	5
Xylene	Slight adhesive ooze and lifting	5
Ammonia 25%	No visible effect	1
Acetic Acid 99%	No visible effect	5
NaOH 10%	No visible effect	1

Rating Scale:

1=no visible effect

2=slight print smear or removal

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

4=severe smear or print removal (print illegible or just barely legible)

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.)

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.

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.

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Brady Europe | Poldergotestraat 9 | 9240 Zele | Belgium | Tel: +32 52.45.7811 | Fax: +32 52.45.7812