Technical Data Sheet

BRADY B-7697 POLYESTER TAG

TDS No. B-7697
Effective Date: 30/07/2019

Description:
GENERAL
Print Technology: Thermal transfer
Material Type: Rigid polyester tag
Finish: 2-sided matt white
Adhesive: -

APPLICATIONS
Manual marking for electrical cable and wires of various diameters.
B-7697 inserts, supplied in roll format to be used in combination with Brady AC-carriers for identification of cables.

RECOMMENDED RIBBONS
Brady series R-6200, R-7961 and R-4300

REGULATORY/AGENCY 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.brady.co.jp/products/labelsuse/rohs
All other regions: www.bradyid.com/weee-rohs

SPECIAL FEATURES

Details:

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D 1000	350 µm
Tensile Strength	ASTM D 882-83	MD : 957 N
Elongation at break	ASTM D 882-83	MD: 87%
Shrinkage	5 minutes at 150°C, used length: 297 mm	MD < 1.0% TD < 0.3%
High service temperature	30 days at 120°C (248°F)	No visible effect on the THT-printing. Very slightly yellowing
Low service temperature	30 days at -40°C (-40°F)	No visible effect
Humidity	30 days at 37°C (99°F) /95% RH	No visible effect
UV-light Resistance	30 days in XenonARC Weatherometer ASTM G155, cycle 1 (no spray)	No visible effect on the THT-printing Very slightly yellowing

Weatherability	30 days in QUV ASTM G154 cycle 1	No visible effect on the THT-printing. Very slightly yellowing
Scratch Resistance	10 times scratching with Erichsen hardness pen with a pressure of 10N	Smearing of the THT-printing with R-4300. No visible effect on other ribbons
Abrasion Resistance	Taber Abraser: 100 cycles with CS-10 wheels and an arm-weight of 1kg	Smearing and smudging width R-4300 Slight Fading with R-6200 Slight Fading with R-7961
Crockmeter Resistance	100 times rubbing with dry cloth 100 times rubbing with cloth immersed in water	No visible effect No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

White B-7697 Samples were printed with the ribbon R-4300, R-6200 and R-7961, allowed to dwell 24 hours prior to test. Testing consisted of five cycles of 10 minute immersions in the specified chemicals followed by 30 minutes recovery periods. After final immersion, samples rubbed 10 times with cotton swab saturated with test fluid. Testing was conducted at room temperature.

R-4300		
CHEMICAL REAGENT	**APPEARANCE OF PRINT WITHOUT RUB**	**APPEARANCE OF PRINT WITH RUB**
Isopropyl Alcohol	No visible effect	Print gone
Methyl ethyl ketone	No visible effect	Print gone
De-ionized water	No visible effect	No visible effect
Alcohol mixture*	No visible effect	Moderate removal of topcoat and printing
N-Hexane	No visible effect	Smearing of the printing
Mil 5606 Oil	No visible effect	No visible effect
ASTM#3 oil	No visible effect	Slight fading
Ethanol	No visible effect	Print gone
Toluene	No visible effect	Print gone
Skydrol® 500B-4	No visible effect	Fading
Diesel	No visible effect	Smearing of the printing
Gasoline	No visible effect	Severe smearing
10% Sulphuric acid	No visible effect	No visible effect
10% Salt water solution	No visible effect	No visible effect

*Alcohol mixture is a mixture of 50% ethanol, 30% methanol and 20% distilled water

R-6200		
CHEMICAL REAGENT	**APPEARANCE OF PRINT WITHOUT RUB**	**APPEARANCE OF PRINT WITH RUB**

Isopropyl Alcohol	No visible effect	Severe fading
Methyl ethyl ketone	Printing is dissolving	Print gone
De-ionized water	No visible effect	No visible effect
Alcohol mixture*	No visible effect	Moderate removal of topcoat and printing
N-Hexane	No visible effect	No visible effect
Mil 5606 Oil	No visible effect	No visible effect
ASTM#3 oil	No visible effect	Severe fading of the printing
Ethanol	No visible effect	Print gone
Toluene	No visible effect	Print gone
Skydrol® 500B-4	No visible effect	Severe Fading
Diesel	No visible effect	No visible effect
Gasoline	No visible effect	Slight fading
10% Sulphuric acid	No visible effect	No visible effect
10% Salt water solution	No visible effect	No visible effect

*Alcohol mixture is a mixture of 50% ethanol, 30% methanol and 20% distilled water

R-7961		
CHEMICAL REAGENT	**APPEARANCE OF PRINT WITHOUT RUB**	**APPEARANCE OF PRINT WITH RUB**
Isopropyl Alcohol	No visible effect	Print gone
Methyl ethyl ketone	Printing is dissolving	Print gone
De-ionized water	No visible effect	No visible effect
Alcohol mixture*	No visible effect	Moderate removal of topcoat Severe fading of the printing
N-Hexane	No visible effect	No visible effect
Mil 5606 Oil	No visible effect	No visible effect
ASTM#3 oil	No visible effect	Print almost gone
Ethanol	No visible effect	Print gone
Toluene	No visible effect	Print gone
Skydrol® 500B-4	Printing is dissolving	Print gone
Diesel	No visible effect	No visible effect
Gasoline	No visible effect	Severe fading
10% Sulphuric acid	No visible effect	No visible effect
10% Salt water solution	No visible effect	No visible effect

*Alcohol mixture is a mixture of 50% ethanol, 30% methanol and 20% distilled water

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.)
S.I.: International System of Units
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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this 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.

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