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Technical Data Sheet

BRADY B-7593 DURABLE POLYESTER NAMEPLATE

TDS No. B-7593
Effective Date: 17/05/2021

Description:

GENERAL

Print Technology: Thermal transfer
Material Type: Polyester
Finish: Gloss
Colors: White, yellow, green, red, silver and black
Adhesive: Permanent acrylic, foam backed

APPLICATIONS

B-7593 durable polyester nameplate labels are designed for patch panel identification in identifying external push-buttons, switches and internal connection points. B-7593 is also used as rating and serial plates using alphanumerics that require name plate quality

RECOMMENDED RIBBONS

Brady Series R6000 Halogen Free
Brady Series R4400 (colors red, blue, green and white)

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

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 - Substrate - Foam tape - Total (excluding liner)	 0.200 mm (0.0079 inch) 0.450 mm (0.0177 inch) 0.650 mm (0.0256 inch)
Adhesion to: - Stainless Steel - Smooth ABS - Powdercoated surface - Polyethylene	ASTM D 1000 20 minutes dwell 24 hour dwell 20 minutes dwell 24 hour dwell 20 minutes dwell 24 hour dwell 20 minutes dwell 24 hour dwell	 107 N/100 mm (98 oz/inch) 200 N/100 mm (183 oz/inch) 83 N/100mm (76 oz/inch) 112 N/100 mm (102 oz/inch) 120 N/100mm (109 oz/inch) 182 N/100 mm (166 oz/inch) 34 N/100mm (24 oz/inch) 36 N/100 mm (31 oz/inch)
Drop Shear	PSTC-7 (except use 1/2" x 1" sample)	35 hours
Tack	ASTM D2979 Polyken™ Probe Tack (1 s dwell, 1 cm/s separation)	468 g

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS White B-7593/R6000 Halogen Free	TYPICAL RESULTS Black B-7593/R4410W	TYPICAL RESULTS Silver B-7593/R6000 Halogen Free
High Service Temperature	1000 hours at 100°C (212°F)	No visual effect	No visual effect	No visual effect
Low Service	1000 hours at -40°C	No visual effect	No visual effect	No visual effect

Temperature	(-40°F)			
Humidity Resistance	1000 hours at 37°C (100°F), 95% R.H.	No visual effect	No visual effect	No visual effect
UV Light Resistance	1000 hours in Q-Sun Xe-1 test chamber	No visual effect	No visual effect	No visual effect
Weatherability	1000 hours in QUV (ASTM G-53)	No visual effect	No visual effect	No visual effect
Abrasion Resistance	Method 5306 US Federal test 191A CS 10 + 500 g/arm	Number of cycles until print is illegible 175 cycles	Number of cycles until print is illegible 75 cycles	Numbers of cycles until print is illegible 175 cycles

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples were printed with the Brady Series R6000 Halogen Free ribbon and dwelled 24 hours prior to test. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. After final immersion, samples rubbed 10 times with cotton swab saturated with test fluid.

White B-7593 / R6000 Halogen Free		
CHEMICAL REAGENT	**APPEARANCE OF THE PRINTING BEFORE RUBBING**	**APPEARANCE OF THE PRINTING AFTER RUBBING**
Isopropyl alcohol	1	1
Methyl ethyl ketone	5	5
Alcohol Mix*	1	2
Gasoline	1	5
Diesel	1	1
Skydrol® 500B-4	1	5
Mil 5606 Oil	1	1
5% sodium hydroxide	1	1
10% Sulphuric Acid Solution	1	1
Deionized Water	1	1
10% Salt Water Solution	1	1
n-hexane	1	1
Iso-octane	1	1
Ethanol	1	1
ASTM#3 oil	1	1
Acetone	1	5

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

Samples printed with the Brady Series R4400 white ribbon and dwelled 24 hours prior to test. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. After final immersion, samples rubbed 10 times with cotton swab saturated with test fluid.

Black B-7593 / R4400W		
CHEMICAL REAGENT	**APPEARANCE OF THE PRINTING BEFORE RUBBING**	**APPEARANCE OF THE PRINTING AFTER RUBBING**
Isopropyl alcohol	1	5
Methyl ethyl ketone	NP	NP
Alcohol Mix*	1	1
Gasoline	1	5
Diesel	1	1
Skydrol® 500B-4	NP	NP
Mil 5606 Oil	1	1
5% sodium hydroxide	1	1
10% Sulphuric Acid Solution	1	1
Deionized Water	1	1
10% Salt Water Solution	1	1
n-hexane	1	1
Iso-octane	1	1
Ethanol	1	4
ASTM#3 oil	1	4
Acetone	NP	NP

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

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Rating Scale:
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 (print legible or just barely legible)
5 = complete print and/or topcoat removal
NP = print removed prior to rub

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.)
Polyken™ is a trademark of Testing Machines Inc.
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.

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