

Votre point de repère

Miniparc du Verger 1 rue de Terre Neuve Bâtiment D 91940 LES ULIS - France

Tél : 01.64.49.51.51 sodistrel@sodistrel.com Fax : 01.69.01.21.32 www.sodistrel.com



Technical Data Sheet

BRADY B-422 THERMAL TRANSFER PRINTABLE GLOSSY WHITE POLYESTER LABEL STOCK

TDS No. B-422 Effective Date: 01/18/2019

Description: GENERAL Print Technology: Thermal transfer Materials Type: White polyester Finish: Glossy white Adhesive: Permanent acrylic

APPLICATIONS

Electronic PCB and component identification, bar code label and rating plates and solar panel identification.

RECOMMENDED RIBBONS Brady Series R6000 Halogen Free Brady Series R4400 (colors- red, blue, green, white)

Brady Series R4900 (alternate)

REGULATORY/AGENCY APPROVALS

UL: B-422 is a UL Recognized Component to UL969 Labeling and Marking Standard when printed with the Brady Series R6000 Halogen Free and Brady Series R4900 ribbons. See UL file MH17154 for specific details. UL information can be accessed on line at UL.com in the UL Product iQ area.

CSA: B-422 is CSA Accepted to C22.2 No.0.15-95 Adhesive Labels Standard when printed with the Brady Series R6000 ribbon. See CSA file 041833 for specific details. CSA information can be accessed online at directories.csa-international.org.

For information on the Weee-RoHS compliance status for a Brady Product go to one of the following websites: In Canada: <u>www.bradycanada.ca/weee-rohs</u>

In Europe: www.bradyeurope.com/roh s

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

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



sodistrel

SPECIAL FEATURES

B-422 is designed to withstand exposure to numerous solvents and exhibits good adhesion to many surfaces including low surface energy plastics.

B-422 is UL Recognized for Outdoor Use on glass, thermoset polyester plastic and polyvinyl fluoride plastic surfaces to support solar panel identification applications.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000	
	-Substrate	0.002 inch
	-Adhesive	(0.0508 mm)
		0.002 inch
	-Total (excluding liner)	(0.0508 mm)
		0.004 inch (0.1016 mm)
Adhesion to:	ASTM D 1000	
-Stainless Steel	20 minute dwell	47 oz/inch (51 N/100
	24 hour dwell	mm)
		55 oz/inch (60 N/100
		mm)
-Textured ABS		30 oz/inch (33 N/100
	20 minute dwell	mm)
	24 hour dwell	35 oz/inch (38 N/100
		mm)
-Polypropylene		47 oz/inch (51 N/100
	20 minute dwell	mm)
	24 hour dwell	51 oz/inch (55 N/100
		mm)
-Enamel Painted Metal		54 oz/inch (59 N/100
	20 minute dwell	mm)
	24 hour dwell	61 oz/inch (67 N/100
		mm)
-Powder Coated Metal	20 minute dwell	45 oz/inch (49 N/100
	24 hour dwell	mm)
		50 oz/inch (55 N/100
		mm)
Tack	ASTM D 2979	,
	Polyken™ Probe Tack	37 oz (1150 g)
	0.5 second dwell	
Tensile Strength and Elongation	ASTM D 1000	
	-Machine	45 lbs/inch (788 N/100
		mm), 75%
Dielectric Strength	ASTM D 1000	7000 Volts
	ASTIVIDIOUU	

Performance properties tested on B-422 printed with the Brady Series R4900 and Brady Series R6000 Halogen Free ribbons. Printed samples of B-422 were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environments. Unless noted, results are the same for both ribbons.

sodistrel-

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at 212°F (100°C)	No visible effect
Low Service Temperature	30 days at -40°F (-40°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C) and 95% R.H.	No visible effect
UV Light Resistance	30 days in UV Sunlighter™ 100	No visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	No visible effect
Salt Fog ResistanceASTM B 11730 days in 5% salt fog solution c		No visible effect
Abrasion Resistance	Taber Abraser, CS-10 grinding wheels,	R6000: Print legible after 100 cycles
	250 g/arm (Fed. STd. 191A, Method5306)	R6000 Halogen Free: Print legible after 100 cycles

PERFORMANCE PROPERTY

CHEMICAL RESISTANCE

Samples printed with the Brady Series R4900 and Brady Series R6000 Halogen Free ribbons. Samples laminated to aluminum 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	SUBJ	ECTIVE OBS	SERVATION OF VISUA	
REAGENT	EFFECT TO LABEL	STOCK	R4900	R6000 Halogen Free
Methyl Ethyl	Slight adhesive ooze		fect w/o rub, complete	No visible effect w/o rub,
Ketone		print removal after rub		complete print removal after rub
1,1,1- Trichloroethane	Slight adhesive ooze	No visible effect w/o rub, complete print removal after rub		Obsolete
Toluene	Slight adhesive ooze		fect w/o rub, complete emoval after rub	No visible effect w/o rub, severe print removal after rub
Freon® TMS	No visible effect		effect w/o rub, slight emoval after rub	Obsolete
Isopropyl Alcohol	No visible effect	No visible effect		No visible effect
Mineral Spirits	No visible effect	No visible effect		No visible effect
JP-8 Jet Fuel	Slight adhesive ooze	No visible effect		No visible effect
ASTM #3 Oil	No visible effect	No visible effect		No visible effect
Mil 5606 Oil	No visible effect	No visible effect		No visible effect
Gasoline	Slight adhesive ooze	No visible effect w/o rub, slight print removal after rub		No visible effect
Skydrol® 500B-4	Slight adhesive ooze	No visible effect w/o rub, complete print removal after rub		No visible effect w/o rub, severe print removal after rub
Super Agitene®	No visible effect	No	visible effect	No visible effect
BIOACT® EC-7R™	Slight adhesive ooze	No	visible effect	Not tested
Deionized Water	No visible effect	No	visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect		No visible effect
10% Sodium Hydroxide Solution	No visible effect	No visible effect		No visible effect

— sodistrel					
10% Sulfuric Acid Solution	No visible effect	No visible effect	No visible effect		

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:

Alconox® is a registered trademark of Alconox Co. BIOACT® is a registered trademark of Petroferm, Inc. EC-7R[™] is a trademark of Petroferm Inc.

Freon® is a registered trademark of Du Pont de Nemours, E.I. and Company Polyken[™] is a trademark of Testing Machines Inc. Skydrol® is a registered trademark of the Monsanto Company Sunlighter[™] is a trademark of the Test Lab Apparatus Company Super Agitene® is a registered trademark of Graymills Corporation ASTM: American Society for Testing and Materials (U.S.A.) CSA: Canadian Standards Association UL: Underwriters Laboratories Inc. (U.S.A.) All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units

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.

Copyright 2019 Brady Worldwide, Inc. | All Rights Reserved Material may not be reproduced or distributed in any form without written permission.

Brady North America | 6555 W. Good Hope Rd | Milwaukee, WI 53223 | USA | Tel: 414-358-6600 | Fax: 800-292-2289