



BRADY B-996 CLEAR POLYESTER OVERLAMINATING TAPE

TDS No. B-996
Effective Date: 5/9/2024

Description:

General:
Print Technology: None
Material Type: Polyester
Finish: Gloss
Adhesive: Permanent acrylic

Applications:

Brady B-996 is used for overlamination. Its release coated surface allows B-996 to be used in the Brady PermaShield™ Label construction.

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

Special Features:

Brady B-996 has excellent clarity and abrasion resistance, as well as very good high temperature and solvent resistance.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total (excluding liner)	0.0030 inch (0.076 mm) 0.0010 inch (0.025 mm) 0.0040 inch (0.102 mm)
Adhesion to: -Stainless Steel	ASTM D 1000 24 hour dwell	63 oz/in (58 N/100 mm)

B-996 samples for Performance Properties were tested applied directly to aluminum panels and overlaminated over Brady PET and vinyl inkjet receptive labelstocks. Samples were allowed to dwell 24 hours at room temperature prior to testing.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at various temperatures	No visible effect up to 100°C
Humidity Resistance	30 days at 100°F (38°C), 95% R.H.	No visible effect
Indoor Light Resistance	30 days exposure to F32T8/841 High Lumen T8 32 watt fluorescent bulb	No visible effect

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Tested samples were applied directly to aluminum panels and overlaminated over Brady PET and vinyl inkjet receptive labelstocks. Printing was done using BradyJet™ J20 and J40 Full Color Ink Cartridges and P-Series Ink Cartridges. Samples were laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 30 minute immersions in the specified test fluid. After immersion, the samples were removed from the test fluid and the printed image rubbed 10 times with a cotton swab saturated with the test fluid. The rating scale below shows the effect to the quality of the print for each sample.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	EFFECT TO LABEL STOCK	EFFECTS TO PRINTED IMAGE	
		WITHOUT RUB	WITH RUB
Acetone	No visible effect	1	1
Toluene	No visible effect	1	1
Isopropyl Alcohol	No visible effect	1	1
Mineral Spirits	No visible effect	1	1
Gasoline	No visible effect	1	1
JP-8 Jet Fuel	No visible effect	1	1
Brake Fluid DOT 3	No visible effect	1	1
Skydrol® 500B-4	No visible effect	1	1
SAE 20 WT Oil at 70°C	No visible effect	1	1
MIL 5606 Oil	No visible effect	1	1
Formula 409® Cleaner	No visible effect	1	1
Northwoods™ Buzz Saw Citrus Degreaser	No visible effect	1	1
Deionized Water	No visible effect	1	1

Rating Scale:

1 = No visible effect

2 = Effect to printed image

3 = Complete ink / topcoat removal

* = Adhesive failure

Chemical Resistance:

Brady B-996 has been developed and tested for durability against a variety of Food and Beverage Industry cleaning and sanitizing solutions. Samples were printed with either BradyJet J20/J40 CMY inks and P-series CMYK inks, laminated to 304 stainless steel 2B finish panels, laminated with B-996 and soaked in typical cleaner or sanitizer solutions as shown in the table below. Chemical Resistance testing to the cleaner or sanitizer solutions were performed by completing 10 cycles of 10 minute dips with 20 minute rest periods between cycles. After the 10th cycle sample text was rubbed with a cotton-tip swab.

Reagent	Type	Condition	Print Performance	Adhesive Performance
Enforce™ LP	chlorinated alkaline cleaner	50 °C	No visible effect	No visible effect
HD PL-10™ Plus	inorganic acid cleaner	23 °C	No visible effect	No visible effect
Heavy Duty Acid LC-30	strong acid cleaner	70 °C	No visible effect	No visible effect
Soil Off™ II	alkaline/near neutral cleaner	50 °C	No visible effect	No visible effect
Madisan 75	quaternary amine sanitizer	23 °C	No visible effect	No visible effect

Vortexx™	peroxy acid/organic acid sanitizer	50 °C	No visible effect	No visible effect
XY12®	sodium hypochlorite sanitizer	23 °C	No visible effect	No visible effect

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 applications.

Trademarks:

Enforce™ is a trademark of Ecolab USA Inc.
 Formula 409® is a registered trademark of Clorox Company.
 HD PL-10™ Plus is a trademark of Ecolab USA Inc.
 Northwoods™ is a trademark of the Superior Chemical Corporation
 PermaShield™ is a trademark of Brady Worldwide, Inc.
 Skydrol® is a registered trademark of the Monsanto Company
 Soil Off™ II is a trademark of Ecolab USA Inc
 Vortexx™ is a trademark of Ecolab USA Inc.
 XY-12® is a registered trademark of Ecolab USA Inc.

ANSI: American National Standards Institute (U.S.A.)
 ASTM: American Society for Testing and Materials (U.S.A.)
 PSTC: Pressure Sensitive Tape Council (U.S.A.)
 SAE: Society of Automotive Engineers (U.S.A.)

Note: All values shown are averages and should not be used for specification purposes. All S.I. Units (metric) are mathematically derived from the U.S. Conventional Units. 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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