

BRADY B-8221 MATTE WHITE POLYESTER TYRE LABEL

TDS No. B-8221
Effective Date: 07/18/2007

Description:

GENERAL

Print Technology: Thermal transfer

Materials Type: White polyester

Finish: Matt white

Adhesive: Rubber-based pressure sensitive

APPLICATIONS

B-8221 is designed for tyre identification.

B-8221 is designed to withstand the harsh environment of vulcanization of passenger and light truck tyre environment. In addition, B-8221 is designed to have strong bond to a tyre, yet remained permanent after vulcanization.

RECOMMENDED RIBBONS

Brady series R8960

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate -Adhesive -Total	0.1320 mm (0.0052 in) 0.0300 mm (0.0012 in) 0.1620 mm (0.0064 in)
Adhesion to: -Stainless Steel	ASTM D 1000 20 minute dwell 24 hour dwell	54 oz/ inch (59 N/ 100 mm) 61 oz/ inch (68 N/ 100 mm)
-ABS	20 minute dwell 24 hour dwell	53 oz/ inch (58 N/ 100 mm) 69 oz/ inch (77 N/ 100 mm)
-Polypropylene	20 minute dwell 24 hour dwell	54 oz/ inch (59 N/ 100 mm) 73 oz/ inch (81 N/ 100 mm)
Tensile Strength and Elongation	ASTM D 1000 Machine Direction	129 lbs/ in (2304 N/ 100 mm), 82%

Performance properties tested on B-8221 printed with Brady Series R8960 ribbons using the Bradyprinter™ THT Model 600X-Plus thermal transfer printer. Printed samples were laminated to aluminum and allowed to dwell 24 hours before exposure to the indicated environmental conditions.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
High Service Temperature	30 days at 130°C	No visible effect to print. Label turned slight yellowish. Label remained functional.
Low Service Temperature	30 days at -40°C	No visible effect.
Humidity Resistance	30 days at 37°C, 95% RH.	No visible effect.
UV Resistance	30 days in QUV.	No visible effect to print. Label turned slight yellowish. Label remained functional.
Abrasion Resistance	Fed. Std. 191A, Method 5306 Taber Abraser, CS-10 grinding wheels, 250g/ arm	Print has faded but still legible after 25 cycles.
Weatherability	ASTM G155 30 days in Xenon Arc Weatherometer	No visible effect.

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with Series R8960 ribbons using a Bradyprinter™ 600X-Plus thermal transfer printer. Samples were

laminated to aluminum panels and allowed to dwell 24 hours prior to testing. Testing was conducted at room temperature and consisted of 15-minute immersion in 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.

SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
CHEMICAL REAGENT	EFFECT AFTER IMMERSION	EFFECT AFTER RUB
Mineral Spirit	No visible effect	No visible effect.
Methyl Ethyl Ketone	Slight adhesive ooze. No visible effect to print.	Severe print removal
Toluene	No visible effect	No visible effect.
Deionized Water	No visible effect	No visible effect.
10% Sodium Hydroxide Solution	No visible effect	No visible effect
10% Sulfuric Acid Solution	No visible effect	No visible effect
3% Alconox® Detergent	No visible effect	No visible effect
Esso® SAE 40	No visible effect	No visible effect
Isopropyl Alcohol	No visible effect	No visible effect

Product testing, customer feedback, and history of similar products, support a customer performance expectation of at least **one year from the date of receipt** for this product as long as this product is stored in its original packaging in an environment *below 80 degrees F and 60% RH*. We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

Trademarks:

ASTM: American Society for Testing and Materials (U.S.A.)
 Alconox® is a registered trademark of Alconox Co.
 BradyPrinter™ is a trademark of Brady Worldwide, Inc.
 ESSO® is the registered trademark of Exxon Mobil Corporation

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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