

BRADY B-8223 DIGITALLY PRINTED TYRE TREAD LABEL

TDS No. B-8223
Effective Date: 08/11/2014

Description:
GENERAL

Print Technology: Digital printing

Materials Type: Top-coated paper laminated with aluminum foil and polyester over lamination

Finish: Glossy, White

Adhesive: Permanent rubber

APPLICATIONS

Tire tread label

COMPLIANCE

RoHS 2 compliant

Details:

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D1000 Substrate + Adhesive • Total	0.134mm (5.36mil)
Peel Adhesion to: • Stainless Steel • Polyethylene (HDPE) • Vulcanized rubber (Smooth) • Vulcanized rubber (Textured)	ASTM D1000 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell 20 minute dwell 24 hour dwell	 136 oz/in 136 oz/in 101 oz/in 103 oz/in 82 oz/in 81 oz/in 43 oz/in 43 oz/in
Tack (Loop) to: • Stainless Steel • HDPE • Vulcanized rubber (Smooth) • Vulcanized rubber (Textured)	ASTM D6195	3066 g 2302 g 932 g 564 g
Abrasion Resistance	Method 5306 of U.S Federal Test Method Std. No 191A CS10 grinding wheels, 250g load	Legibility remained after 100 cycles
Gloss Test	20 Degree	56 GU
Water Immersion Test	15 minutes immersion and 10 times	No visible effect

Performance properties tested on B-8223 were printed with digital printing using HP Indigo printer. Printed samples were laminated to stainless steel, HDPE, rubber (smooth and texture) surface and allowed to dwell 24 hours before exposure to the indicated environment.

PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature Resistance	50°C 1000hours exposure in oven	Print remained legible and label remained functional
Low Service Temperature Resistance	-40 °C 1000hours exposure in freezer	Print remained legible and label remained functional
Humidity Resistance	45 °C/95%RH 1000hours exposure in humidity chamber	Slight yellowing Print remained legible and label remained functional

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 and References:

ASTM: American Society for Testing and Materials (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.

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Brady Asia | 1 Kaki Bukit Crescent | Singapore 416236 | Singapore | Tel: 65 6477.7261 | Fax: 65 6748.7248