

**BRADY B-8224 DIGITALLY PRINTED TYRE TREAD LABEL**

TDS No. B-8224  
Effective Date: 08/11/2014

**Description:**  
**GENERAL**

**Print Technology:** Digital printing

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

**Finish:** Glossy, Silver

**Adhesive:** Permanent rubber

**APPLICATIONS**

Tire tread label

**COMPLIANCE**

RoHS 2 compliant

**Details:**

PHYSICAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Thickness	ASTM D1000 Substrate + Adhesive  • Total	0.100mm (4mil)
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	  89 oz/in 100 oz/in  84 oz/in 88 oz/in  63 oz/in 68 oz/in  47 oz/in 57 oz/in
Tack (Loop) to:  • Stainless Steel • HDPE • Vulcanized rubber (Smooth) • Vulcanized rubber (Textured)	ASTM D6195	1919 g 1714 g 985 g 427 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	92 GU
Water Immersion Test	15 minutes immersion and 10 times rubbing	No visible effect

Performance properties tested on B-8224 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	60°C 1000hours exposure in oven	Slight yellowing 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	60 °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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