

BRADY B-109 TAG

TDS No. B-109
Effective Date: 03/21/2019

Description:

GENERAL

Print Technology: Thermal transfer and dot matrix

Material Type: Cross laminated polyethylene film tag

Finish: Matte

APPLICATIONS

B-109 is a multipurpose tag that can be used for a variety of tag applications including identification of multiconductor cables, inventory, equipment, lockout, safety warning repair and work-in-progress.

B-109 is extremely tear resistant. It is also a good cold-weather tag.

RECOMMENDED RIBBONS

Brady Series R4300

Brady Series R6200

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.bradyc.co.jp/products/labelsuse/rohs

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

Note- Past B-109 in the market is RoHS compliant using Exemption 10a for DecaBDE in Polymeric Materials (10/13/2005). Materials labeled with RoHS compliant statement on product packaging is PBDE free and is RoHS compliant without Exemption 10a for DecaBDE.

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Thickness	ASTM D 1000 -Substrate	0.0085 inch (0.216 mm)
Hole Tear Strength	Brady LAB F003* -Machine Direction -Cross Direction	30.4 lbs. (13.8 kg) 23.4 lbs. (10.6 kg)
Tear Propagation Resistance	ASTM D 1938 -Machine Direction -Cross Direction	10.7 lbs. (4.8 kg) 10.2 lbs. (4.6 kg)
Tensile Strength and Elongation	ASTM D 1000 -Machine Direction -Cross Direction	69 lbs/in (1208 N/100 mm), 430% 81 lbs/in (1418 N/100 mm), 336%
Dielectric Strength	ASTM D 1000	61,500 volts

* LAB F003 is a Brady Worldwide, Inc. laboratory test procedure and is available upon request.

Performance Properties tested on B-109 printed with the Brady Series R4300 and the Brady Series R6200 thermal transfer ribbons.

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS
Long Term High Service Temperature	30 days at various temperatures	120°F (49°C) No visible effect 176°F (80°C) Slight edge curl 193°F (90°C) Slight edge curl 212°F (100°C) Moderate edge curl
Long Term Low Service Temperature	30 days at -40°F (-40°C)	No visible effect
Humidity Resistance	30 days at 100°F (37°C), 95% R.H.	No visible effect
UV Light Resistance	ASTM G115, Cycle 1, without water spray 30 days in Xenon Arc Chamber	Yellow discoloration of tag. Print still legible.

Weatherability	ASTM G155, Cycle 1 30 days in Xenon Arc Weatherometer	Slight yellow discoloration of tag. Print still legible.
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PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with the Brady Series R4300 and the Brady Series R6200 thermal transfer ribbons. Test was conducted at room temperature after 24 hour dwell. Testing consisted of 5 cycles of 10 minute immersions in the specified chemical reagent followed by 30 minute recovery periods. After last immersion samples rubbed 10 times with cotton swab.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGES	
	R4300	R6200
Methyl Ethyl Ketone	No visible effect w/o rub, complete print removal w/rub	No visible effect w/o rub, complete print removal w/rub
Toluene	No visible effect w/o rub, complete print removal w/rub	No visible effect w/o rub, complete print removal w/rub
Isopropyl Alcohol	No visible effect w/o rub, slight print fade with rub	No visible effect w/o rub, slight print fade with rub
Mineral Spirits	No visible effect w/o rub, slight print fade with rub	No visible effect w/o rub, slight print fade with rub
JP-8 Jet Fuel	No visible effect w/o rub, slight print smear with rub	No visible effect w/o rub, slight print smear with rub
ASTM #3 Oil	No visible effect with or without rub	No visible effect with or without rub
Mil 5606 Oil	No visible effect with or without rub. Topcoat stained pink.	No visible effect with or without rub. Topcoat stained pink.
Skydrol® 500B-4	Complete print removal without rub.	Complete print removal without rub.
Super Agitene®	No visible effect w/o rub, slight print smear with rub	No visible effect w/o rub, slight print smear with rub
Deionized Water	No visible effect with or without rub	No visible effect with or without rub
3% Alconox® Detergent	No visible effect with or without rub	No visible effect with or without rub
10% Sulfuric Acid Solution	No visible effect with or without rub	No visible effect with or without rub
10% Sodium Hydroxide Solution	No visible effect w/o rub, slight print smear w/rub	No visible effect w/o rub, complete print removal w/rub

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 application.

Trademarks:

Alconox® is a registered trademark of Alconox Co.

Skydrol® is a registered trademark of the Monsanto Company

Super Agitene® is a registered trademark of Graymills Corporation

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.

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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