

BRADY B-225 THERMAL TRANSFER PRINTABLE FLAME-RETARDANT TYVEK® TAG STOCK

TDS No. B-225

Effective Date: 13/10/2022

Description:

GENERAL

Print Technology: Thermal transfer

Material Type: White flame retardant Tyvek®

Finish: Matte

APPLICATIONS

Designed for harsh environments as well as general purpose tag applications where resistance to water and chemicals is required.

RECOMMENDED RIBBONS

Brady Series R6200

Brady Series R7961 (alternate)

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.bradycanada.ca/products/labelsuse/rohs

All other regions: www.bradycanada.ca/weee-rohs

SPECIAL FEATURES

B-225 exhibits good tear resistance.

B-225 meets Federal Motor Vehicle Safety Standard No. 302 (FMVSS 302).

B-225 complies with FAR 25.853 Appendix F Part I (a)(1)(ii) 12 seconds vertical test.

Details:

PHYSICAL PROPERTIES	TEST METHOD	AVERAGE RESULTS
Thickness	ASTM D1000	0.0066 inch (0.168 mm)
Tensile Strength	ASTM D1000* -Machine -Cross machine	8804 psi (154175 N/100 mm) 8843 psi (154870 N/100 mm)
Elmendorf Tear	DIN EN 21974 (94) -Machine -Cross machine	1.24 lbs (0.56 kg) 1.24 lbs (0.56 kg)

*modified for: speed = 4 inch/minute, gauge length = 2 inches

Performance properties tested on B-225 printed with the Brady Series R6200 ribbon.

PERFORMANCE PROPERTIES	TEST METHOD	TYPICAL RESULTS
High Service Temperature	30 days at various temperatures	No visible effect to material or print at 70°C (158 °F). Moderate edge curl at 70°C (158°F)
Low Service Temperature	30 days at -70°C (-94°F)	No visible effect
Humidity Resistance	30 days at 37°C (100°F) and 95% relative humidity	No visible effect
UV Light Resistance	ASTM G155 Cycle 1 dry 30 days in Q-Sun Xenon Test Chamber	no visible effect
Weatherability	ASTM G155, Cycle 1 30 days in Xenon arc Weather-Ometer®	No visible effect
Salt Fog Resistance	ASTM B117 30 days in 5% salt fog solution chamber	No visible effect
Abrasion Resistance	Taber Abraser, CS10 grinding wheels, 250 g/arm (Fed. Std.191A, Method 5306)	Print legible after 100 cycles

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE
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Samples were printed with the Brady Series R6200 ribbon. Testing was conducted at room temperature. Testing consisted of 5 cycles of 10 minute immersions in the specified test fluid followed by a 30 minute recovery period. After the final immersion, the printed image was rubbed 10 times with a cotton swab saturated with the test fluid.

CHEMICAL REAGENT	SUBJECTIVE OBSERVATION OF VISUAL CHANGE		
	EFFECT TO LABEL STOCK	EFFECTS TO PRINTED IMAGE - R6200	
		WITHOUT RUB	WITH RUB
Methyl Ethyl Ketone	No visible effect	2	3
Toluene	No visible effect	1	3
Isopropyl Alcohol	No visible effect	1	3
Mineral Spirits	No visible effect	1	2
JP-8 Jet Fuel	No visible effect	1	4
MIL 5606 Oil	Material retains pink color from oil	1	3
Skydrol® 500B-4	No visible effect	2	4
Deionized water	No visible effect	1	1
3% Alconox® Detergent	No visible effect	1	1
10% Sodium Hydroxide solution	No visible effect	1	1
10% Sulfuric Acid solution	No visible effect	1	1

Rating Scale:

- 1= no visible effect
- 2= slight smear or print removal, detectable but minimal smear
- 3= moderate smear or print removal (print still legible)
- 4= severe smear or print removal (print illegible or just barely legible)
- 5= complete print and/or topcoat removal
- NP= print removed prior to 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 applications.

Trademarks:

- Alconox® is a registered trademark of Alconox Co.
- Skydrol® is a registered trademark of the Monsanto Company
- Tyvek® is a registered trademark of the DuPont Company
- Weather-Ometer® is a registered trademark of Atlas Material Testing Technology LLC
- 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.

Product compliance information is based upon information provided by suppliers of the raw materials used by Brady to manufacture this product or based on results of testing using recognized analytical methods performed by a third party, independent laboratory. As such, Brady makes no independent representations or warranties, express or implied, and assumes no liability in connection with the use of this information.

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