

Technical specification sheet

Ball & Doggett

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Product: Rhino Blockout Banner 450um



Category: Display & Visual - Solvent, Eco Solvent, Latex & UV Inkjet

Technical specifications:

Property	Unit	Spec	Value	Test Method
Appearance	-	Semi-Matte	Semi-Matte	ASTM E284
Base Thickness	μm	410 ± 5	410	ASTM D645
Base Weight	g/m^2	470 ± 5	469	ASTM D646
Total Thickness	μm	450 ± 10	451	ASTM D645
Total Weight	g/m^2	520 ± 10	521	ASTM D646
Gloss	%	60°: 85°:	60° : 85° :	ASTM D2457
Lab	-	L : $95.0 \leq$ a : 0.0 ± 2.0 b : -2.0 ± 2.0	L : 94.2 a : 1.5 b : -1.4	ANSI T (D50/2°/Abs/No)
Whiteness	-	91.0 ± 3	91.0	ASTM D1925
VLT	%	-	-	KS L 2514
UV CUT	%	-	-	JIS A 5759

General

Calliper, face film	ISO 534	254 micron
Calliper, face film & adhesive	ISO 534	294 micron
Dimensional stability	FINAT FTM 14	0 mm
<i>Note: Ink loads in excess of 250% may cause increased shrinkage of the printed film</i>		
Adhesion, initial	FINAT FTM-1, Stainless steel	470 N/m
Adhesion, ultimate	FINAT FTM-1, Stainless steel	560 N/m
Adhesion, initial	FINAT FTM-1, HDPE	400 N/m
Adhesion, ultimate	FINAT FTM-1, HDPE	420 N/m
Opacity	X-rite SP64	>99%
Flammability	Self extinguishing	
Shelf life	Stored at 23° C/50-55 % RH	1 year
Expected Durability	Vertical exposure indoor ^	4 years
^ See ICS Performance Guarantee Durability Bulletin for your specific printer and ink combination for further information		

Thermal

Application temperature	≤10°C
Temperature range	- 40°C to + 80°C

Note

Materials have to be properly dried before further processing, for example laminating, varnishing or application. The residual solvents could change the products' specific features.

For good print and converting result we recommend to let the rolls acclimatize in the print/lamination room at least 24h. before printing or converting. Too much temperature or humidity deviation between material and room climate can cause layflatness and/or printability issues.

Generally, constant material storage conditions of ideally 20°C (+/-2°C) /50% RH (+/- 5%), without too big climate deviations, will support a more robust and stable printing/converting process. For further details, please refer to TB 1.11.

Testing Methods

Dimensional stability:

Is measured on a 150 x 150 mm aluminium panel to which a specimen has been applied; 72 hours after application the panel is exposed for 48 hours to + 70°C, after which the shrinkage is measured.

Adhesion:

(FTM-1, FINAT) is measured by peeling a specimen at a 180° angle from a stainless steel or float glass panel, 24 hours after the specimen has been applied under standardised conditions. Initial adhesion is measured 20 minutes after application of the specimen.

Flammability:

A specimen applied to aluminium is subjected to the flame of a gas burner for 15 seconds. The film should stop burning within 15 seconds after removal from the flame.

Temperature range:

A specimen applied to stainless steel is exposed at high and low temperatures and brought back to room temperature. 1 hour after exposure the specimen is examined for any deterioration. Note: Prolonged exposure to high and low temperatures in the presence of chemicals such as solvents, acids, dyes, etc. may eventually cause deterioration.

Chemical Resistance:

All chemical tests are conducted with test panels to which a specimen has been applied. 72 hours after application the panels are immersed in the test fluid for the given test period. 1 hour after removing the panel from the fluid, the specimen is examined for any deterioration.

Corrosion Resistance:

A specimen applied to aluminium is exposed to saline mist (5% salt) at 35°C. After exposure, the film is removed and the panel is examined for traces of corrosion.

Important

Information on physical characteristics is based upon tests we believe to be reliable. The values listed herein are typical values and are not for use in specifications. They are intended only as a source of information and are given without guarantee and do not constitute a warranty. Purchasers should independently determine, prior to use, the suitability of any material for their specific use.

All technical data is subject to change without prior notice.

Warranty

Avery Dennison® materials are manufactured under careful quality control and are warranted to be free from defect in material and workmanship. Any material shown to our satisfaction to be defective at the time of sale will be replaced without charge. Our aggregate liability to the purchaser shall in no circumstances exceed the cost of the defective materials supplied. No salesman, representative or agent is authorised to give guarantee, warranty, or make any representation contrary to the foregoing.

All Avery Dennison® materials are sold subject to the above conditions, being part of our standard conditions of sale, a copy of which is available on request.

Expected Durability

The expected durability of Avery Dennison films are defined as the expected performance life of the Avery Dennison graphic film(s) within Zone 1 of the Avery Dennison zone system, in outdoor vertical exposure conditions.

The actual performance life will depend on a variety of factors, including selection and preparation of substrate, angle and direction of exposure, application methods, environmental conditions and cleaning/maintenance of the films.

In case of films used in areas of high temperatures or humidity, high altitudes and industrially polluted areas the performance will be further reduced.

Expected Durability and Warranted Period Definitions

Expected durability is the expected period of time defined in the product data sheet, the product should, but is not warranted to, perform satisfactorily when applied in vertical exposure conditions as defined in Instructional Bulletin 1.30. The warranted period as defined in the appropriate ICS Performance Guarantee Bulletin, is the maximum period of time Avery Dennison will warrant the finished products performance in accordance with ICS Performance Guarantee Terms and Conditions 1.0, provided that the film is properly stored, converted and installed in accordance with Avery Dennison guidelines.

+Compatible with most printer and ink combinations. Test prior to use.

Certified for
HP Latex Inks

For further details please check the HP media locator website at: hp.com/go/mediasolutionslocator