

MAGIC[®] PRODUCT APPLICATIONS GUIDE

TB9

InteliCoat



Digital Imaging
Substrates

TYVEK[®] INDOOR/OUTDOOR INK JET BANNER

MAGIC[®] TB9 is a 9 mil polyolefin banner grade of TYVEK[®] that resists water and UV damage. This product is tear resistant, which makes it perfect for long-term indoor or outdoor banner applications. TB9 is designed for use with pigment, solvent, and eco-solvent.

PHYSICAL PROPERTIES

Basis Weight.....130g/m ²	Gloss (60°).....2.1	Tensile Strength (MD/CD).....8670/9590 psi
Caliper.....9 mil (230 microns)	Optimum Print RH:.....30-60%	Ultimate Elongation (MD/CD).....21/26%
Opacity.....96%	Optimum Print Temp:.....70° F (21 °C)	Initial Tear Resistance(MD?CD).....1080/840 lb/in
Whiteness.....114	Flame Spread	Outdoor Life Expectancy*.....3 months
Brightness.....101	Classification:.....Class A**	Indoor Life Expectancy*.....6 months

*Based on manufacturer's accelerated age testing. Results may vary based on usage.

**Based on ASTM E84 test method

APPLICATIONS GUIDELINES

Printer & Ink Compatibility: TB9 may be printed on Hewlett-Packard DesignJet[®] series, Canon iPF series, Epson Stylus Pro series, and other water-based piezo printers. It is recommended to use pigment inks for longer-lasting images. TB9 may also be printed in most solvent and eco-solvent printers such as: Mimaki JV3, Mutoh Toucan, Vutek, Nur, Roland Versa Camm, Roland SolJet, etc.

Water Resistance & Surface Protection: Aqueous and solvent pigment inks will provide a high degree of water resistance. Pressure sensitive overlaminates are recommended to protect the surface from dirt and abrasion. Dirt and stains can not be cleaned from the imaged unprotected surface, and the unprotected surface can be damaged from excessive folding or creasing.

Printing Guidelines: To optimize print quality, aqueous printers should be set for highest print quality. Recommended media selection should be "HEAVY COATED PAPER". Images sized in a software application may be printed slightly smaller than anticipated. For solvent/eco-solvent, ink coverage up to 350% is recommended. Suggested heater settings: preheat 50 °C, print heat 55 °C. To optimize print quality, printers should be set for the highest print quality. High ink saturation can affect the waterfastness properties and show ink bleed in heavy saturation areas. ICC color profiles for Magic brand products can be obtained for selected RIP, ink, and printer combinations on the magicinkjet.com web site.

Material Handling & Storage: Once the print is completed, roll imaged media onto a core until ready for use. Folding of the material is not recommended. After use, the material should be stored in its original packaging in the poly bag suspended on the end boards. The material should be stored a 72° F (+/-5°) for no more than 1 year.

FINISHING RECOMMENDATIONS

Tape & Stitched Hem: Standard high-tack banner tape can be used and is preferred to sewing, as the sewing process can scratch or cause coating pick-off. Follow the guidelines of the tape manufacturer. If sewing, it is recommended that the unlaminated banners be stitched hem side up so that the sewing machine foot comes in contact with only the backside of the banner. For maximum reinforcement, a double-stitched hem with a double lock stitch with a maximum of five stitches per inch and corner reinforcements are recommended.

Grommeting: Grommets should be placed in the hemline along the length of the banner so that the grommet is through two layers. Corner grommets should be placed where the length and width hems cross, so that the grommet is through four layers. A reinforced corner is also recommended to increase durability.

Laminating: A vinyl pressure-sensitive overlaminate or an acrylic liquid overcoat may be used. However, overlaminating one side may cause the product to curl toward the laminated side. Let image dry 24 hours before laminating.

RECYCLING AND DISPOSAL



Disposal by recycling of ink jet media is the preferred method. Where recycle markets do not exist, disposal by landfill or an approved incinerator is acceptable. See the Magic Technical Bulletin @ www.magicinkjet.com

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For more information, call 1-413-539-5731,
or visit our website: www.magicinkjet.com

*Most updated version of this guide can be obtained on our website.

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