

# MAGIC® APPLICATIONS GUIDE

## GFTB9

### Tyvek® Indoor/Outdoor Ink Jet Banner



**MAGIC® GFTB9** is a banner grade of Tyvek® and can be used for longer-term indoor and outdoor promotional banner applications where tear resistance is required. This product is intended for use in Vutek and NUR/Salsa solvent piezo printers. Rolls are available in 60" x 300' rolls (3" core).

#### PHYSICAL PROPERTIES

Basis Weight .....	3.8 oz/yd <sup>2</sup>	Optimum Print RH.....	20-60%	Tear Strength Properties (MD/TD)	
Caliper.....	9 mil	Optimum Print Temp.....	70F (21C)	Tensile Strength.....	8670/9590 psi
Opacity.....	96%	Outdoor Life Expectancy*	....3 months	Ultimate Elongation.....	21/26%
Whiteness.....	114	Indoor Life Expectancy*	....6 months	Initial Tear Resistance.....	1080/840 lbs./in
Brightness.....	101	Flame Spread		Tear Propagation.....	103/105 lbs./in
Gloss (60P).....	2.1	Classification** .....	Class A		

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

\*\*Based on ASTM E84 test method

#### APPLICATIONS GUIDELINES

<b>Printer Compatibility:</b>	GFTB9 can be printed in Vutek and Nur/Salsa printer systems equipped with solvent-based piezo inks. This product is recommended for indoor and outdoor banner applications.
<b>Water Resistance &amp; Surface Protection:</b>	The pigmented inks provide a high degree of water resistance. Lamination is not required. Ink coverage of up to 250% is recommended, because higher ink saturation can affect the waterfast properties and show ink bleed in heavy saturation areas. Dirt and stains cannot be cleaned from the imaged surface, and the surface can be damaged from excessive folding or creasing. An overlamine can be applied to give added protection in circumstances where the graphic will be subjected to high levels of contact and handling. To avoid perforating the laminate, use banner tape to put a hem on the banner (see Tape hem section below). Let image dry 24 hours before exposing to moisture.
<b>Printing Guidelines:</b>	To optimize print quality, printers should be set for highest print quality.
<b>Material Handling &amp; Storage:</b>	Once the print is completed, roll imaged media onto a core until ready for posting. 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 at 72 <sup>0</sup> F (+/-5 <sup>0</sup> ) for no more than 1 year.

#### FINISHING RECOMMENDATIONS

<b>Banner Installation:</b>	Improper installation can cause premature banner failure. It is recommended that a professional installer be used.
<b>Tape &amp; Stitched Hem:</b>	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 un laminated 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.
<b>Grommeting:</b>	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.
<b>Laminating:</b>	To protect the surface from dirt and abrasion, a vinyl pressure-sensitive overlamine is recommended. However, overlaminating one side may cause the product to curl toward the laminated side. Let image dry 24 hours before laminating.

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