

# MAGIC® PRODUCTS APPLICATIONS GUIDE

## PPM7

### POLYPROPYLENE INK JET BANNER

InteliCoat



Digital Imaging  
Substrates

MAGIC® PPM7 is an economical 9 mil polypropylene durable banner material that resists water and UV damage. PPM7 produces high quality images on a matte finish. The matte surface minimizes glare from indoor lighting. The product is designed for use with pigment, solvent, and eco-solvent inks and can be used for both indoor and outdoor applications. PPM7 is also available with a pressure-sensitive adhesive (PPM7 PSA) for aqueous printer systems.

#### PHYSICAL PROPERTIES

Coated Caliper . . . . .	.9.0 mil (229.5 micron)	Tensile Strength (MD/CD) . . . . .	50/65 lbs/in
Basis Weight . . . . .	165.7 g/m <sup>2</sup>	Ultimate Elongation (MD/CD) . . . . .	150/90%
Whiteness /Brightness. .	102 / 101	Optimum Print Temp. . . . .	70° F (21 °C)
Gloss (60°) . . . . .	.2.1	Indoor Life Expectancy* . . . . .	6 months (UV inks)
%Opacity: . . . . .	97%	Outdoor Life Expectancy* . . . . .	1 month (UV inks)
Flame Spread Classification (ASTM E-84) Class B Based on ASTM E-84 Test Method		*Based on manufacturer's accelerated age testing using pigment ink. Results may vary based on usage.	

#### APPLICATIONS GUIDELINES

**Printer & Ink Compatibility:** PPM7 may be printed with Hewlett-Packard DesignJet®, Epson Stylus 1800/1900/ 2200/4000/ 7000/9000/11000, Canon iPF series, and other piezo water-based systems equipped with pigment inks. It is recommended to use pigment inks for longer-lasting images. PPM7 may also be printed in most solvent and eco-solvent printers such as Mimaki JV3, Mutoh Toucan, Vetek, 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 stains can not be cleaned from the imaged unprotected surface, and the unprotected surface can be damaged from excessive folding and creasing.

**Printing:** On aqueous printers, ink coverage of up to 250% is recommended, select the "HEAVY COATED PAPER" mode. For solvent/eco-solvent, ink coverage up to 350% is recommended. Excessive ink saturation can affect the waterfast properties as well as color uniformity. Suggested heater settings: preheat 42° C, and post heat 37° C. ICC color profiles for Magic brand products may be obtained for selected RIP, ink, and printer combinations on the [magicinkjet.com](http://magicinkjet.com).

**Material Handling & Storage:** Once print is completed, roll imaged media onto a core until ready for use. Folding of the material is not recommended. After use, the roll should be stored at 72° F (+/-5°) and in its original packaging in the poly bag 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 so that the grommet is through two layers. Corner grommets should be placed through the four overlapping layers. A reinforced corner is also recommended to increase durability.

**Laminating:** A vinyl pressure-sensitive overlaminate or an acrylic liquid overcoat can also 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](http://www.magicinkjet.com)

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For more information, call 1-413-539-5731,  
or visit our website: [www.magicinkjet.com](http://www.magicinkjet.com)

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

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