

MAGIC® PRODUCTS APPLICATIONS GUIDE



DMBL5BEL

UNIVERSAL INK JET BACKLIT FILM

MAGIC® DMBL5BEL is a 5 mil backprint polyester film for Raster Graphics Bellise® printer systems. DMBL5BEL is ideal for durable backlit display signage.

PHYSICAL PROPERTIES

| | |
|------------------------------|-----------------------------------|
| Caliper | 5.8 mils |
| %Opacity | 58% |
| Gloss of Print Side (75°) | 2.9 |
| Gloss of Film Side (75°) | 102 |
| Whiteness (white backing) | 60 |
| Optimum Printing Environment | 70°F (30-70% RH) |
| Recommended Printing Devices | Raster Graphics Bellise® Printers |
| Recommended Inks | Dye Based Inks |

APPLICATIONS GUIDELINES

Imaging: The print side is the matte side, and it is wound to the outside of the roll.

Printer Settings: To optimize print quality, printers should be set for highest print quality. The maximum ink saturation level is 350%.

Printer and Ink Compatibility: DMBL5BEL is recommended to be used with dye based inks. Dye based inks yield a larger color gamut than pigmented inks. Expect lower densities if pigmented inks are used.

Waterfastness: Dye-based inks have a moderate level of water resistance. Condensation in a light box can cause small amounts of ink bleed. Lamination with encapsulation is the best way to ensure complete waterfastness.

Light Stability: For those applications where dye based inks are used, long term stability is needed, or sunlight transmitted through windows is an issue, a UV stable vinyl pressure-sensitive overlaminate can be applied to the printed surface. The material should be installed with the UV stable overlaminate can be applied to the printed surface. DMBL5BEL should be installed with the UV stable overlaminate side facing out. For total protection, both sides of the graphic should be laminated with UV stable laminates.

FINISHING RECOMMENDATIONS

Lighting: To optimize image appearance, the image should be back illuminated, as the transmitted light yields the desired ink densities. Viewing with reflected light yields only slightly lower ink saturation than with transmitted light.

Lamination: Cold pressure-sensitive overlaminates are recommended. Heat-activated laminates are not recommended unless the image is encapsulated with a 1/8" safe edge around the entire graphic. For additional lamination tips, download the film lamination technical bulletin.

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

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