

USING HMI InGlass DIGITAL PRINTING TO CREATE WORKS OF ART

InGlass Digital Printing is an advanced technology that redefines how glass can function as both a structural material and a design surface. During the tempering process, ceramic inks fuse permanently into the glass at high temperatures, bonding the design directly to the surface. The result is a highly durable printed glass surface that is resistant to scratching, fading, and wear. InGlass printed glass is antimicrobial, easy to maintain, and offers virtually limitless design possibilities.

From architectural features and hospitality environments to commercial interiors and residential spaces, InGlass Digital Printing enables designers, architects, and glass professionals to transform glass into a custom design element. Through HMI's network of professional glass partners across the United States, customers can collaborate with experienced installers and designers to bring custom glass concepts to life. There are no minimum order requirements for digitally printed glass—only the opportunity to reimagine what glass can become.

WHY HMI InGlass COLORS ARE DIFFERENT

InGlass Digital Printing uses ceramic inks that must withstand the tempering process, which reaches temperatures exceeding 1200°F (650°C). Because of this, the pigments used in the inks must be made from inorganic materials that can permanently fuse with the glass.

Our primary ceramic pigment colors are: Blue, Green, White, Orange, Red, and Black (commonly referred to as BGWORK). All other colors are produced by combining these base pigments. Our software converts RGB image files into the best possible color output for printing on glass. However, because ceramic pigments differ from traditional printing inks, some colors cannot be reproduced exactly.

Certain colors are particularly difficult to match due to environmental and safety restrictions on pigments. For example, magenta pigments used in traditional color mixing are typically lead- or cadmium-based and therefore cannot be used in our process. As a result, some color variation may occur during the conversion from digital artwork to ceramic glass printing.

Colors that are typically difficult to reproduce exactly include:

- Pinks and Purples
- Candy Apple Reds (may appear more brick or maroon toned)
- Lemon Yellows (may appear more mustard toned)
- Metallics
- Neon Colors

To help visualize these shifts, we provide a digital color simulation of your artwork prior to printing. While this simulation provides a helpful preview, it should be considered an approximation rather than an exact representation of the final printed result. We also offer free physical swatch samples so you can see exactly what our inorganic inks can do and choose the perfect high-performance color for your application.



GLASS SELECTION AND COLOR IMPACT

Standard clear glass naturally contains a small amount of iron, which creates a subtle green tint. This tint can slightly influence how printed colors appear. For projects where color accuracy is especially important, Low-Iron glass is often recommended. Low-Iron glass reduces the green tint and allows printed colors to appear brighter and more neutral. However, the choice between Clear and Low-Iron glass ultimately depends on the desired aesthetic and project requirements.

For more info, visit: www.hmiglass.com/digital-printing