BL7
Universal Polyester Backlit Film for Pigmented Printer Systems

Outré ink jet materials are manufactured to meet or beat original equipment manufacturer's specifications. BL7 is a bright white, universal 7 mil polyester backlit film for use in aqueous pigment and piezo inkjet printing systems. BL7 is a backlit film recommended as a front-print and front-view light box application. It is ideal for backlit signage applications, and provides maximum transmitted and reflected ink density ensuring vivid color and high image resolution. BL7 is suitable for both indoor and outdoor light box graphics and kiosks. BL7 has excellent scratch resistance and does not require lamination.

Physical Properties	
	BL7
Basis Weight	
Caliper	7 mil
% Opacity	70%
Whiteness	95
Optimum Printing Environment	70º F

Application Guidelines

Imaging: The print needs to be front-imaged and viewed from the image side. The print side is the matte side and it is wound to the outside of the roll.

Printer & Ink Compatibility: BL7 may be printed with Hewlett-Packard DesignJet®, Canon, ColorSpan® Displaymakers, Epson and piezo water-based pigments. BL7 may be printed with PiezoPrint 5000 inks. It is recommended to use pigment inks. Although dye-based inks provide a higher color gamut, ink fade can occur. Inks NOT recommended for use are Ilford®Archiva™, and ColorSpan EnduraChrome inks because premature fading is known to occur. Using water-based pigments will yield outstanding print quality for use with either reflective or transmitted light.

Product	HP DesignJet		Canon		ColorSpan Displaymaker		Epson		Roland/Mimaki/Mutoh	
	Dye	Pigment	Dye	Pigment	Dye	Pigment	Dye	Pigment	Dye	Pigment
BL7	•	•	•	•	•	•	•	•	•	•

Printer Settings: To optimize print quality, printers should be set for the highest print quality. The maximum ink saturation level for NovaJet and ColorSpan prints is 300%. To reduce the effects of the "star wheel marks" and to minimize bleed, the recommended maximum ink saturation level is 350% on the HP Design Jet series printers. The media selection is "Heavy Weight Coated Paper" for the HP DesignJet series printers. "Super" and "bi-directional" are the printers settings for water-based piezo wide format printers. Dry-time will vary depending on ink type and the ink saturation level used.

Water Resistance: Pigment inks provide the best long-term UV fade and water resistance. Dye-based inks have a moderate level of water resistance. Condensation in a light box will not affect the image. Lamination is not required but is recommended when an image will be exposed to repeated moisture or physical handling or when prolonged product life is needed. With additional protective glass or overlaminate, you can expect expanded durability for up to 1 year outdoors. BL7 should be installed with the UV stable laminate side facing out.

Light Stability: Pigment inks provide the best long-term UV fade and water resistance. With additional protective glass or overlaminate, you can expect expanded durability.

Finishing Recommendations

Image Protection: Due to the waterfast coating, lamination is not required. Overlamlinates will protect the image from physical damage if image is unprotected by glass. Cold pressure laminates should be used on the BL7. When using heat activated laminates, it is recommended to encapsulate leaving 1/8" safe edge around the entire graphic to ensure complete waterfastness.

Lighting: Viewing with reflected or transmitted light yields outstanding image contrast and color vibrancy.

Removal: Removal may require physical scraping or the use of solvents. By inserting a sharp knife or razor under a corner of the graphic and peeling the graphic carefully, the graphic will remove in fairly large pieces. To increase the ease of the removal, gently heat the vinyl with a heat gun to soften the vinyl and adhesive. Most residues can be removed by picking with the adhesive side of the removed graphic. If this is unsuccessful, soak the residue with a mild solvent (i.e., isopropyl alcohol, ethanol).