Rigid Media Optimized with
ColorPRO Technology

3A COMPOSITES

hp **COLORPRO** TECHNOLOGY

FOME-COR® SIRIUS DISPA® SIRIUS

ColorPRO media designed to deliver color exellence in digital printing

FOME-COR® SIRIUS and **DISPA® SIRIUS** with ColorPRO Technology are the first rigid substrates designed together with original HP inks and printers, enabling optimized digital printing system performance. As the only current HP certified rigid display boards with ColorPRO Technology, the SIRIUS products have been developed specifically for enhanced printing performance with the HP PageWide XL Pro Printer Series.

Product Availability

	Gauges	Facers	Core	Sheet Sizes
FOME-COR SIRIUS	3/16" (5mm) 3/8" (10mm)	White paper facers with ColorPRO Technology (Inkjet treated uncoated*)	White	B1 standard; (700mm x 1000mm / 27.6" x 39.4")
DISPA SIRIUS	3.3mm	White paper facers with ColorPRO Technology (Inkjet coated*)	White	

*See inside for more details on facers

FOME-COR SIRIUS

DISPA SIRIUS

With ColorPRO Technology	Without ColorPRO Technology	
Image of a pigment drop on paper		Precise dot placement, minimum dot gain
Image of a draw-down pigment ink on paper		Higher contrast black, more striking colors
Image of 16-point text		Crisper text and graphics
Image of a 3-point black line edge		Sharper lines

ColorPRO Technology performance benefits

HP ColorPRO Technology Difference

A set of paper enhancement technologies that visibly improve the print quality of inkjet printing compared to standard uncoated offset & untreated bond papers. Media with ColorPRO Technology have undergone rigorous profiling and substrate tuning in order to perform to a strict set of industry-leading specifications, utilizing advanced technologies to deliver a variety of benefits including optimized color saturation, sharpness, & consistency on targeted digital printers.

- Achieves higher black optical density & wider color gamut over standard uncoated paper
- Delivers sharp details, lines, and text for clear, eye-catching graphics
- Produces high-impact graphics with high color saturation
- Advanced HP pigment ink adhesion for long lasting colors
- Specialized paper facers designed for rapid ink absorption and fast dry time
- Media with ColorPRO Technology enables optimized printing system performance & profitability when color quality matters

Media Compatibility

FOME-COR SIRIUS and DISPA SIRIUS utilize paper using HP ColorPRO technology, and are uniquely positioned to optimize digital printing with the PageWide XL Pro printer series for applications such as retail point-of-sale (POS) posters, short-term interior displays, & communication boards.

The interaction of the ink with the paper facers determines the drying capacity of the ink, the color saturation, and the overall image quality. In product testing, the SIRIUS products were deemed by HP to be the recommended solutions based on optimum performance with regard to:

- ✓ Color gamut
- ✓ Print speed
- ✓ Fine line print performance
- ✓ Lack of print artifacts
- ✓ Ink consumption & durability

The inks remain near the surface and bind to the paper

With ColorPRO Technology

The inks penetrate and absorb into the paper

Without ColorPRO Technology

ColorPRO Technology is incorporated into the paper-making process, delivering visibly enhanced print quality when used with HP pigment inks

Much of this performance advantage can be traced to the proprietary technology used to optimize the paper facers. The papers have been qualified by HP and proven successful in multiple applications, and FOME-COR SIRIUS and DISPA SIRIUS display boards with ColorPRO Technology are recommended by HP for optimum performance and value when working with the PageWide XL Pro printer series.

FOME-COR® SIRIUS

White paper facers with ColorPRO Technology

Extruded Polystyrene Foam

Inkjet treated uncoated facers include a specific chemical component that smooths the surface and fixes the ink on top. This results in a more saturated print.

Inkjet treated uncoated

XPS foam core provides stiffness & stability, a smooth and consistent printing surface, and the availability of various thicknesses.

DISPA® SIRIUS

White paper facers with ColorPRO Technology

Embossed Paper Core
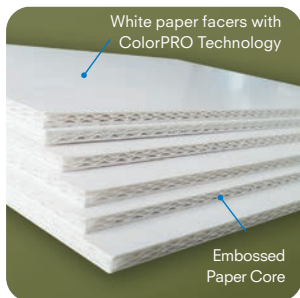
Inkjet coated facers fix the pigment on their surface & absorb the water from the inkjet ink. Once the coating is applied to the substrate, rollers help to "polish" the substrate creating in a less porous surface that absorbs less ink, resulting in highly saturated colors.*

Inkjet coated

Embossed/structured core provides very good dimensional stability and flatness, a smooth printing surface with no "read-through" lines, and 100% recyclability.

*Because the ink does not absorb as much, the printing speed and coverage area is critical in determining drying/finishing time

Differentiation Driven by **Performance**

FOME-COR SIRIUS and DISPA SIRIUS products are the only current rigid boards certified with ColorPRO Technology and are the preferred and recommended boards for optimal performance with the new HP PageWide XL Pro printer series. They continuously undergo rigorous color profiling & substrate tuning - enabling customers to easily achieve color excellency with HP printers. Qualification and certification of manufacturing facilities ensure that the products meet ColorPRO standards and deliver the benefits of ColorPRO Technology.

Why FOME-COR SIRIUS?

- Outperforms uncoated/non ColorPRO boards for color saturation[1] and coverage, and outperforms offset coated boards for print artifacts such as banding

- Achieves higher black optical density & wider color gamut over standard uncoated paper

- Specialized papers produce exceptional fine line detail and image sharpness

- Value add of ColorPRO Technology optimizes ink consumption[2], enabling fast printing and short dry times at low overall cost

- Extremely light weight with good stiffness and stability

Photo of FOME-COR SIRIUS (right) and an alternative, uncoated foam board (left) printed on the PageWide XL Pro

Why DISPA SIRIUS?

- Offers a sustainable, 100% recyclable board without compromising image quality as seen in corrugate materials (FSC®-C169891)

- Designed with HP water-based ink technology to deliver extremely high quality, consistent print results

- Specialized facers absorb less ink than standard uncoated, resulting in highly saturated colors and low ink consumption

- Produces excellent image sharpness & fine line detail

- Good dimensional stability and flatness

1 HP internal testing, February 2022. Based on CIElab gamut measured on GretagMacbeth TC9.18 RGB chart printed on the HP PageWide XL Pro 8200 PostScript (color management off, firmware 04_21_36.1) printer and based on line accuracy—HP Line Width A-5998-5644-1 test—with 3A Composites FOME-COR® SIRIUS with ColorPRO Technology, Neofoam POP-Acid Free (standard foamboard with uncoated liner), and Gilman Brothers InSite BCNT (standard foamboard with coated liner) foamboards.

2 HP internal testing, February 2022. Based on ink consumption collected from the HP Embedded Web Server on the HP PageWide XL Pro 8200 PostScript printed jobs report (using HP SmartStream in High Detail print mode and firmware 04_21_36.1) after printing on 3A Composites FOME-COR® SIRIUS with ColorPRO Technology, Neofoam POP-Acid Free, and Gilman Brothers InSite BCNT foamboards. HP testing confirms 3A FOME-COR® SIRIUS with ColorPRO Technology boards deliver 40% more color than boards utilizing standard uncoated liners while using similar ink levels.

⚠ Image Quality Performance

As previously explained, image quality attributes such as color saturation and banding are dependent on the liner of the substrate. There are non-compatible boards that show print quality defects such as ink drying issues or ink bleeding defects. **Uncoated liners** are very porous surfaces, so while there may be minimal banding defects, the facers absorb the ink very fast leaving only a small amount of ink on the substrate surface, resulting in a low saturated print. Standard **offset coated** substrates are NOT compatible with water based pigment inks like HP PageWide XL Pro Technology.

Product Technical Data Sheet

FOME-COR® SIRIUS **DISPA® SIRIUS**

hp COLOR**PRO** TECHNOLOGY

MEASURES & WEIGHT			FOME-COR SIRIUS		DISPA SIRIUS
Thickness		mm	5 (3/16")	9.5 (3/8")	3.3
Basis Weight	EN 29073-1	lbs/sh	0.43	0.54	2.5
Board Dimensions		mm	B1 - 700x1000 (27.6" x 39.4")		
Panel Width Tolerance		mm	+/- 3		+/- 5
Panel Length Tolerance		mm	+/- 3		+/- 5
Panel Thickness Tolerance		mm	+/- 0.8		+/- 0.4
Area Weight Tolerance		%	+/- 5%		+/- 5
Right Angle Tolerance		mm/m	+/- 1		+/- 1
CORE					
			White extruded polystyrene foam		White embossed paper
SURFACE					
Facers			White, inkjet treated uncoated paper with ColorPRO Technology		White, inkjet coated paper with ColorPRO Technology
Color Value	CIELAB		L^*= 93 | a^*= 0 | b^*= 3		L^*= 94.3 | a^*= 1.1 | b^*= -1.9
Smoothness	DIN 53107 (DISPA)	Sheffield / Bekk S	225 maximum (Sheffield)		11 - 12 (Bekk S)
PHYSICAL PROPERTIES					
Flexural Strength	EN 310	N/mm^2	7	18	3
pH-Wert	ISO 6588		4.8 - 5.0 (Neutral value = 7)		8.6 (Neutral value = 7)

Note:
These technical details are nominal guide values.
The actual measured values are subject to slight production-related fluctuations. However, no guarantee can be given for the accuracy of the information and the results that result from their use. The values were determined according to the above standards, valid at the time of the test.