



DUPONT™ CYREL® PERFORMANCE PLATES

Engineered surface digital plates for the highest print quality at high speed



For More Information

On DuPont™ Cyrel® DSP Engineered Surface Digital Plate [READ NOW](#)

On DuPont™ Cyrel® FAST DFP Engineered Surface Digital Plate [READ NOW](#)



DUPONT™ CYREL® PERFORMANCE PLATES—A STEP-CHANGE IN DIGITAL PLATES

DuPont™ Cyrel® Performance Plates are a family of next-generation digital printing plates specifically designed for the flexible packaging printer-converter. Featuring a unique, engineered plate surface, Cyrel® Performance Plates offer many distinct advantages—including superior solid ink density, long tonal range and plate consolidation—that enable flexible packaging printer-converters to achieve quality that is indistinguishable from gravure while improving sustainability and realizing significant productivity benefits.

Ideal for a broad range of applications

Cyrel® Performance Plates have been designed to perform with a wide array of substrates and offer excellent compatibility with solvent-based, water-based and UV inks.

They can be used to achieve outstanding on-shelf package impact and exceptional print quality for consumer packaged goods (CPG) companies in a wide variety of flexible packaging and tag & label applications.

Best performance in a standard digital workflow

Available in solvent (DSP) and thermal (Cyrel® FAST DFP) processing versions, Cyrel® Performance Plates do not require any modification to the main UV exposure step and perform well with standard flexo CTP units. There is no need for special films or laminates and standard prepress workflows can be used.

Offering an optimal combination of superior solid ink density and good highlight dot performance, Performance Plates enable printer-converters to achieve the highest quality at high speed with no additional workflow steps.



Photos above and on cover courtesy of Ultra Flex.

For More Information

Packaging Graphics capabilities
...[VIEW VIDEO NOW](#)

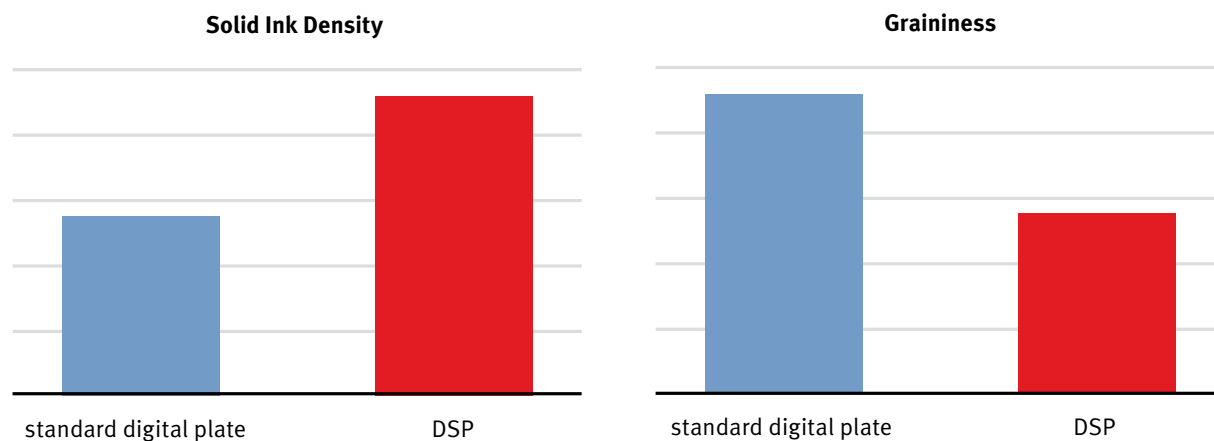


WHY DUPONT™ CYREL® PERFORMANCE PLATES ARE THE DIGITAL PLATE OF CHOICE

Superior solid ink density

When it comes to solid ink density (SID), Cyrel® Performance Plates typically provide 10% to 20% higher SID than standard digital plates. This measurable improvement in SID is seen consistently with both hard and soft tapes from various manufacturers, allowing greater latitude in tape selection.

Measurable SID improvement of Performance Plates versus standard digital plates across a full range of tapes, from soft to firm



Up to 20% improvement in Solid Ink Density.

Up to 20% improvement in Graininess.



For More Information

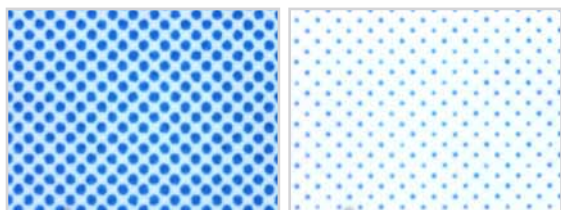
Printing specs of an actual print trial → [VIEW NOW](#)



WHY DUPONT™ CYREL® PERFORMANCE PLATES ARE THE DIGITAL PLATE OF CHOICE

Excellent minimum dot size and low dot gain

Cyrel® Performance Plates have a minimum dot size of 175 LPI .5% dot held on the plate, with the first printing dots in the 8% to 10% range. The low dot gain can easily be compensated for during prepress.



Performance Plates show excellent highlight printing characteristics and good uniformity throughout the tone scale

Smoother ink laydown with dramatic reduction in graininess

Cyrel® Performance Plates produce much smoother solids, resulting in significantly less graininess—typically 50% less than standard digital plates—and minimized pinholing.

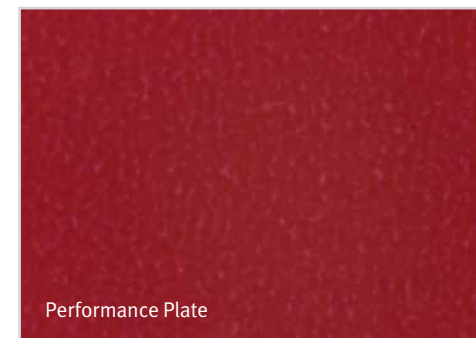


Microscopic picture of Performance Plates (DSP) @ 200x magnification

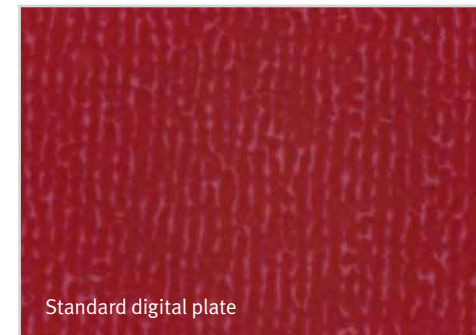
Visual graininess comparison of Performance Plates versus standard digital plate

("standard" medium compressible mounting tape)

Unscreened Solids



Performance Plate



Standard digital plate



BEST PACKAGE PRINT QUALITY AND SHELF IMPACT

With Cyrel® Performance Plates, flexible packaging printer-converters have greater control over ink laydown and can achieve stronger, more vibrant colors. This is particularly important for consumer packaged goods (CPG) companies that are always looking for ways to improve the shelf impact of their products.

And, with color variation of less than two delta E throughout runs being typical when using Cyrel® Performance Plates and extended gamut printing, it is easier than ever to ensure improved brand color consistency.

What's more, lower volume SKUs can run together side-by-side, with each lane being a different SKU. Cyrel® Performance Plates and extended gamut printing open up a new world of possibilities.

Quality Metrics	Performance Plates	Standard Digital	Gravure
Color Saturation (High SID)	✓		✓
Smooth Solids, Low Graininess	✓		✓
High Resolution	✓	✓	
Highest Print Contrast	✓		
Smooth Vignettes	✓	✓	✓
Sharp, Clean Type	✓	✓	

DUPONT™ CYREL® PERFORMANCE PLATES HELP IMPROVE PRODUCTIVITY AND SUSTAINABILITY

In addition to achieving the highest quality at high speeds, Cyrel® Performance Plates enable significant improvements in both productivity and sustainability.

Cyrel® Performance Plates help improve press uptime because they come up to color quicker. This also reduces start-up waste.

By making it possible to shift to extended gamut printing, Cyrel® Performance Plates enable printer-converters to dramatically reduce the time required for color matching at the start of a run and minimize or eliminate press wash-ups during and after a run because inks don't change from job to job.

Solids and screens can be combined on the same plate because Cyrel® Performance Plates are a true combination plate. This reduces plate consumption and simplifies plate inventory.

Ink consumption can be reduced because lower volume anilox rolls can be used with Performance Plates while still increasing solid ink density and reducing graininess.

DuPont has innovative solutions to all your flexographic needs. Click on the Contact Us button below to find out more about DuPont™ Cyrel® Performance Plates and how they can help you achieve the highest print quality at high speed.

More information

DuPont™ Cyrel® DSP Engineered Surface Digital Plate ... [READ NOW](#)

DuPont™ Cyrel® FAST DFP Engineered Surface Digital Plate ... [READ NOW](#)

Packaging Graphics capabilities ... [VIEW VIDEO NOW](#)

Printing specs of an actual print trial ... [VIEW NOW](#)

Ultra Flex case study ... [READ NOW](#)

[SIGN UP FOR EMAIL ALERTS](#)

[CONTACT US](#)

DuPont Packaging Graphics

All technical data presented within this brochure is dependent on press conditions.

Copyright © 2013 DuPont. All rights reserved. The DuPont Oval Logo, DuPont™ and Cyrel® are trademarks or registered trademarks of E.I. du Pont de Nemours and Company or its affiliates. 3M is a trademark of 3M Company.

www.cyrel.com/na

