



DuPont™ Cyrel® Flexographic Solutions

cyrel.com

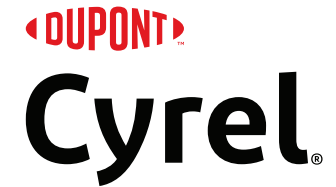
DuPont™ Cyrel® offers a broad range of flexographic solutions that optimize the quality, productivity and sustainability for printers/converters and tradeshops.



**Flexography
delivered**



The Right Product for Every Packaging Application



DuPont™ Cyrel® offers a plate for every kind of flexographic printing for all flexographic printing applications, regardless of the substrate, design or complexity of your package.

Cyrel® is known for its detailed graphics, high impact colors and speed-to-market capabilities that empower your brand.

Key Industry segments:



Flexible Packaging

We have a broad range plate offering for Flexible Packaging, where printing with Cyrel® plates will consistently give your package "sell on the shelf graphics".



Tag and Label

We offer a wide variety of plates that will take care of all of your tag and label application. You can successfully print with UV inks to make your labels more vibrant on-shelf.



Corrugated and Paper

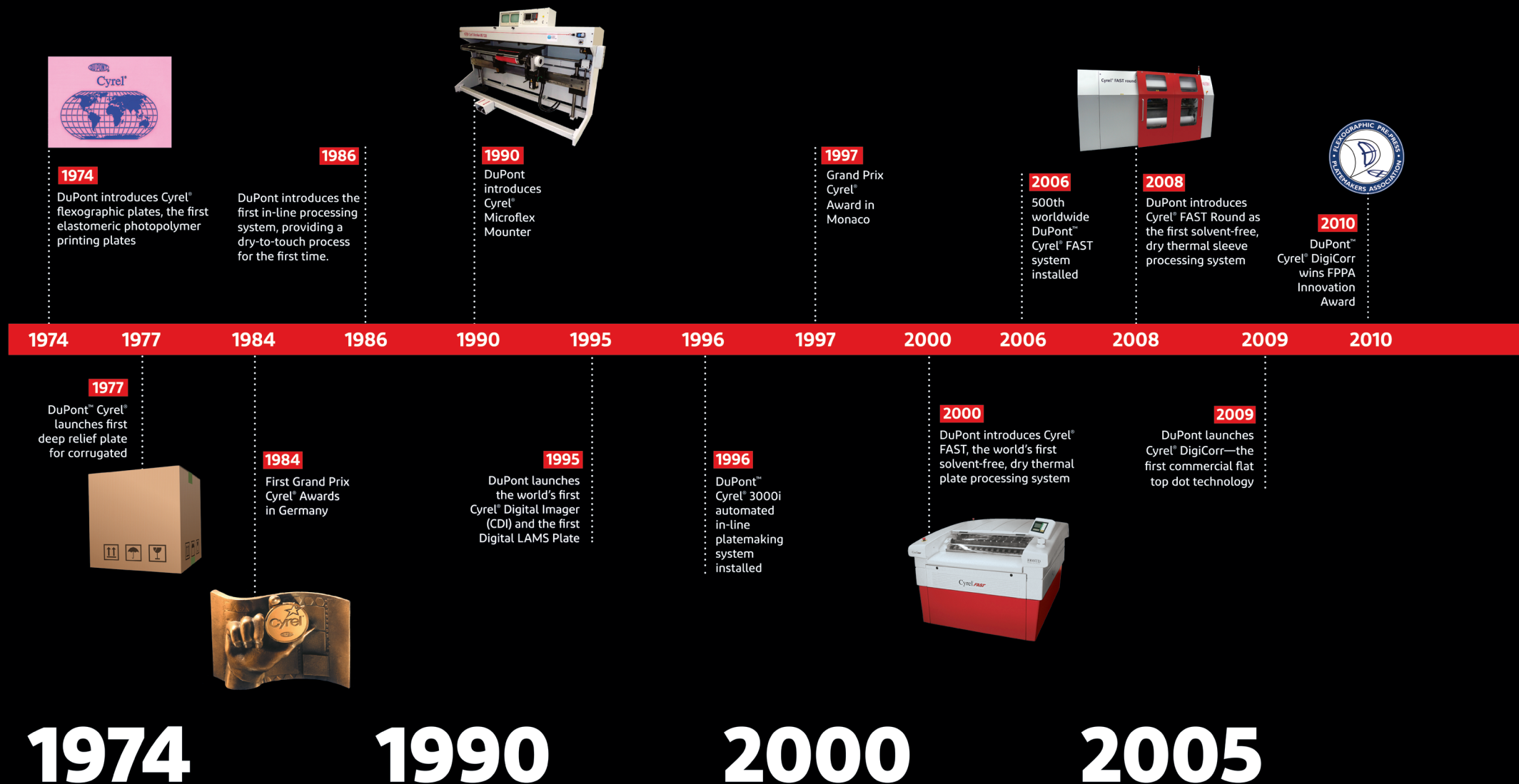
From bar codes on shipping boxes that scan right every time, to high impact graphics on point of purchase displays, our plates enable high-quality printing on corrugated substrates.



Beverage & Folding Carton

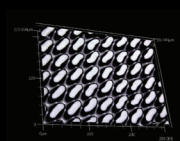
Cyrel® plates for Beverage and Folding carton printing fulfilling the requirements for consistent quality and high volume jobs on demanding substrates and with waterbased or UV inks. Our compatibility with UV inks gives you brilliant colors which makes your designs pop.

DuPont is committed to bringing new flexography innovation and solutions to the industry.





2013
DuPont launches
Cyrel® Performance
Plates (DSP/DFP)

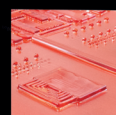


2016
Cyrel®
EASY EPC for
Corrugated
Introduced

2018
DuPont launches Cyrel®
EASY BRITE screens,
designed to optimize ink
laydown in high-volume
printing, typically seen
when printing a white
undercoat, or solid areas
with spot colors



Cyrel® FAST
3000 TD



2021
Cyrel®
EASY R



2022
Cyrel® Lightning
wins the FTA
Technical Innovation
Award Winner



2024
Cyrel® University;
Cyrel® EASY FAST EFM
Cyrel® FAST 1000TD

2012

2013

2015

2016

2018

2019

2021

2022

2023

2024

2025

2026

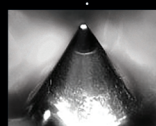
2012

DuPont launches
Cyrel® DigiFlow flat
top dot workflow



2015

DuPont
Introduces Cyrel®
EASY with built-in
flat top dot plate
technology



2016

DuPont
launches
Cyrel® FAST
2000 TD



2019

DuPont launches
Cyrel® DLC, an
innovative, soft digital
plate developed
especially for the
corrugated market

Cyrel® Lightning
LSH Plate



2023

Cyrel® Lightning
LFH Plate



2026
DuPont™ Cyrel®
ReNew



2010

2015

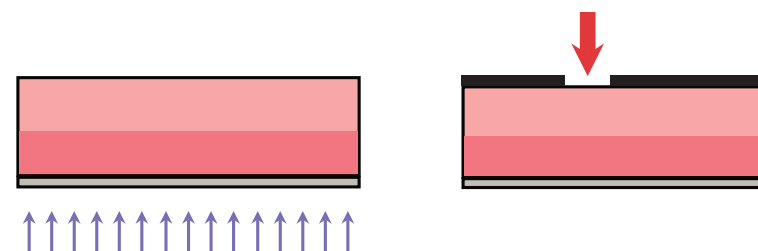
2020

2025

Platemaking workflows

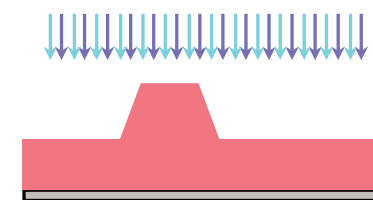
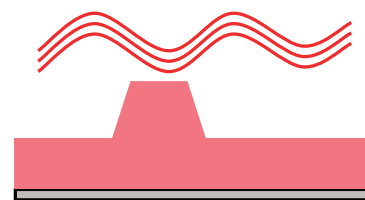
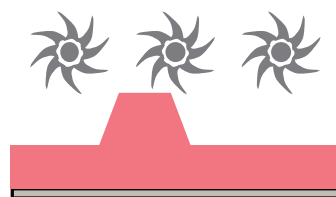
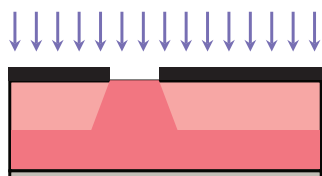
At **DuPont**, we understand the challenges you face.

That's why we offer a vast array of Cyrel® flexographic platemaking solutions that address your needs for productivity and quality.



		Typical platemaking time	Back Exposure	Digital Imaging
Cyrel® FAST Digital		<60 minutes	1 minute	15 - 24 minutes
Cyrel® Digital		180 minutes	1 - 5 min	15 - 24 minutes
Cyrel® Analog		160 minutes	1 - 5 min	–

*examples based on most popular thermal and solvent thin plates



Main Exposure

Processing

Drying

Post Exposure & Light Finishing

5-10 minutes

Thermal Processing
10 - 20 minutes

0 minutes

3 - 5 minutes

6 - 14 minutes

Solvent Processing
10 - 20 minutes

90 - 180 minutes

3 - 12 minutes

8 - 15 minutes

Solvent Processing
5 - 18 minutes

90 - 180 minutes

3 - 12 minutes

Plate Portfolio

DuPont™ Cyrel® Plate Family			Cyrel® FAST (Thermal) Plates							
		Lightning UV-LED	EASY Flat Top Dot				Digital			
		LFH	EFX	EFXR	EFER	EFM	DFUV	DFR	DFM	DFS
Applications	Flexible Packaging	•	•	•	•	•		•	•	•
	Tag & Label	•	•	•	•	•	•	•	•	•
	Folding Carton	•	•	•		•		•	•	•
	Corrugated Post Print									
	Corrugated Pre Print/Paper	•	•	•		•		•	•	•
	Beverage Carton	•	•	•		•		•	•	•
Inks	UV	•	•	•	•	•	•	•	•	•
	Solvent	•	•	•	•	•	•	•	•	•
	Water	•	•	•	•	•	•	•	•	•
Durometer (ShA)	0.045 0.067 0.100 0.107 (1.14 1.70 2.54 2.72mm)	74 66 - -	74-76 65-67 58-60 58-60	76-78 68-70 60-62 60-62	76-78 68-70 60-62 -	71-73 58-60 48-50 -	76 73 - -	78-80 70-72 - 64-66	70 58 48 48	73 62 49 -
	0.112 0.125 0.155 0.170 (2.84 3.18 3.94 4.32mm)	- - - -	53-55 - - -	59-61 - - -	- - - -	46-48 - - -	- - - -	- - - -	48 - - -	47 - - -
	0.185 0.197 0.217 0.237 0.250 (4.70 5.00 5.51 6.02 6.35mm)	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -	- - - - -

Cyrel® Digital Solvent Plates													Cyrel® Analog Solvent Plates	
Lightning UV-LED		EASY Flat Top Dot					Digital						Analog	
LSH	LSE	ESXR	ESER	EPR2	ESM	EPC	DPR	DS2	DPC	DEC	DLC	DSM	NEOS	TCP
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Cyrel® FAST Thermal Technology

DuPont™ Cyrel® FAST technology brings your package to life, faster, cleaner and more reliably.

We turn complicated operations into solutions and we work to make your business more efficient, robust and sustainable.

Smaller runs, faster turnarounds, minimizing environmental footprints and printing on new substrates are all possible with **DuPont™ Cyrel® FAST**.

Cyrel® FAST enabling what's next.



Faster processing

Cyrel® FAST thermal workflow is a complete hardware and consumable solution, enabling improved process control, product quality and consistency and up to a 75% reduction in plate-production time.



Smaller footprint

Cyrel® FAST thermal workflow features the smallest environmental footprint available today, reducing greenhouse gases by 48% and enabling a 63% reduction in non-renewable energy consumption.



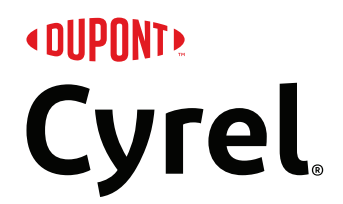
Lower Costs

Cyrel® FAST thermal workflow can help save money and materials, reducing plate consumption by up to 15% compared to conventional methods and reducing waste-treatment and disposal costs thanks to the solvent-free process.



Improved Performance

Cyrel® FAST thermal workflow improves productivity by enabling faster setup times, higher press speeds and longer life of the print form.





«DUPONT»
**Cyrel®
FAST**



DuPont™ Cyrel® FAST Thermal Platemaking Workflow

Print Beyond Limits using
20% less energy

DuPont™ Cyrel® FAST - 25 years of platemaking success

For over a quarter of a century, the innovative **DuPont™ Cyrel® FAST** system has enabled printers, tradeshops, and converters to **supercharge productivity** and bring packaging designs to life faster, cleaner and more reliably.

As our thermal technology **celebrates 25 years** of success, we are proud to have achieved more than **1,500 installations worldwide**.

Continued innovation from our dedicated team ensures the Cyrel® FAST platemaking system continues to evolve and set the pace, meeting the increasing demands of even the most challenging printing designs of today's flexo plate makers and converters.

Discover how DuPont™ Cyrel® FAST can transform your workflow to deliver optimum quality plates with speed and precision, while also improving process control, performance and minimizing environmental footprint.

FAST by Name...

FAST by Nature

Simplifying complicated operations and enabling businesses to achieve shorter runs and faster turnarounds on various substrates, the **DuPont™ Cyrel® FAST thermal system** earned its name because of how quickly it can provide the first plate.

More impressively, this is all achieved while **minimizing the environmental footprint** of the platemaking process.

The FAST system can reduce platemaking time by up to an incredible 75% while the dry, solvent-free process eliminates the need to handle, distill and dispose of washout fluids and provides an extremely low-maintenance operation.

Faster press setup times, higher production speeds and high-quality printing deliver improved performance, while VOC emissions are reduced by 99.8% and the global warming potential is reduced by 48% compared to a solvent-based workflow.



«DUPONT»
Cyrel®

Go green.
FAST.



25 good reasons for you to invest in the Cyrel® FAST system

Discover more
Cyrel® FAST here:



To celebrate 25 years of platemaking success with our DuPont™ Cyrel® FAST we are proud to present 25 good reasons why your business should be using this system.

1. Better press OEE

Cyrel® FAST enables faster press setup times, higher production speeds and high-quality printing deliver better press OEE (Overall Equipment Effectiveness) and lower startup waste.

2. Proven reliability

"We know that maintaining full control over our processes, ensuring short feedback loops, and striving for consistency and predictability in quality are the keys to our success. The Cyrel® FAST technology allows us to produce flexo plates extremely reliably and on demand since 2007" says Lene Høgh Madsen, Prepress Manager at Schur Star.

3. Technical service capability

Our experienced technicians are on-hand to quickly address any issues that impact ongoing operations. Critically, our FAST processors have remote access capability for quick troubleshooting.

4. Decreased production time

Cyrel® FAST eliminates plate cleaning and drying, reducing production time by up to a staggering 75%!

5. FAST by nature

The dry, solvent-free FAST process eliminates the need for washout fluids - VOC emissions are reduced by 99.8% and global warming potential is reduced by 48% compared to solvent-based workflow.

6. High-speed platemaking

Cyrel® FAST units can perform under pressure and live up to their name, producing more thermal plates per shift in comparison to solvent platemaking systems.

7. Faster, cleaner, reliable

For a quarter of a century, DuPont™ Cyrel® FAST technology has enabled businesses to supercharge productivity and make their packaging designs a reality faster, cleaner and more reliably.

8. Protect what's most important

"It is key to maintain the perfect balance between functionality and integrity, print quality and sustainability in order to protect what's most important: the packaged good," says Ari-Pekka Pietilä, Chief Sales and Marketing Officer, Amerplast.

9. A proven success

More than 1,500 installations worldwide.

10. We don't stand still

We have recently expanded the range with Cyrel® Lightning LFH, a plate optimized for flexible packaging, compatible with the latest LED exposure and screening technology.

11. Enhanced fiber printing

We can enable higher quality prints on lower quality substrates with our Cyrel® EFM FAST plates, optimized for printing on fiber substrates.

12. FAST by name

Plates per hour throughput is a key measure of success - the thermal processor is named FAST because of how quickly it can provide the first plate.



Discover how Cyrel® FAST can help your business

DuPont™ Cyrel® FAST units perform under pressure and live up to their name, producing more thermal plates per shift in comparison to solvent platemaking systems.

13. Avoid downtime

"The Cyrel® FAST 2000 TD Processor enables us to supply replacements to the press within 40 minutes, in the event of print changes or damaged plates, thus avoiding downtime and multiple makereadies," says Tobias Gneiting, prepress manager at schäfer-etiketten.

14. Smaller runs, faster

The Cyrel® FAST System makes it possible for businesses to meet the challenge of delivering smaller print runs and faster turnarounds while minimizing the environmental footprint.

15. The right equipment to the right size

Continual development of the Cyrel® FAST processors' performance has led to a complete line-up of the latest tech systems in all sizes and plate formats: 1000 TD, 2000 TD, 3000 TD.

16. Ongoing innovation

Ongoing innovation and dedication ensure each subsequent generation of Cyrel® FAST continues to improve to meet the changing demands of today's platemakers and converters.

17. Incredible versatility

With Cyrel® FAST, converters have access to a complete system and family of flexo plates for practically all flexo printing and packaging applications.

18. Supreme reliability

The reliability of DuPont Cyrel® FAST thermal processors is well-known and proven through a large install base, exhaustive field experience, and detailed customer feedback.

19. Flexibility and freedom

"Flexibility is key for us and our customers. With Cyrel® FAST we converted five label customers" said Jesper Haagen, co-owner of Reproflex Scandinavia A/S, from Denmark.

20. A Legacy of Innovation

DuPont invented the first photopolymer flexographic plate in 1974 to provide a higher quality, more productive, and less expensive alternative to existing flexographic printing methods.

21. Faster AND cleaner plates

Cyrel® FAST technology reliably delivers quality plates faster AND cleaner. With its catalytic oxidizer, the thermal processor releases virtually no VOC through the exhaust during plate production.

22. Efficient to run

Data shows that Cyrel® FAST reduces the electricity consumption for platemaking by more than 80% compared to a solvent workflow.

23. Save on Space

By removing the solvent still and dryer unit, the Cyrel® FAST system reduces emissions, cuts energy demands, and optimizes space—minimizing environmental and physical impact.

24. Boost Productivity

Cyrel® FAST is designed to be easy to operate, reducing the learning curve for operators and minimizing setup errors.

25. Meet ESG objectives

Cyrel® FAST minimizes your operation's environmental footprint - something sustainability-focused customers increasingly demand to achieve their objectives.



The DuPont™ Cyrel® EASY Platform

- Simplify your platemaking suite

With built-in flat top dots, the **EASY plate platform** was developed for customers who want to process a plate in a simplified workflow, while enabling print on a wide variety of substrates, all with **optimum quality in highlights, solids and smooth vignettes.**

An EASY plate for every workflow

The wide range of options in the DuPont™ Cyrel® EASY range ensures there is an ideal plate available for every job.

Whether using a solvent-based workflow or the DuPont™ Cyrel® FAST platemaking system, there is an entire - and continually growing - family of DuPont™ Cyrel® EASY plates for every application from tag & label to flexible packaging and corrugated.



Productivity

- Simplified workflow (no lamination)
- Consistency
- Quickly comes up to color
- Reduced errors –
- Reduced rework
- Impression latitude
- Plate-to-plate consistency in producing flat top dots



Cost Savings

- No need to invest in nitrogen exposure unit, special exposure technology or lamination equipment to get flat top dots



Quality

- High ink transfer and color saturation
- Improved mid-tones and highlights
- Print quality consistency throughout a run and from run-to-run



Press Performance

- Print consistency across multiple press locations
- Improved Solid ink density with excellent fade to zero
- Higher press speeds
- High durability on press

DuPont™ Cyrel® Lightning

- UV LED optimized for quality

The DuPont™ Cyrel® Lightning is a series of plates optimized for LED exposures to achieve high quality printing across a broad range of packaging segments.

Cyrel® LSH is the photopolymer formulation for the solvent workflow, while Cyrel® LFH is the photopolymer formulation for the thermal Cyrel® FAST workflow.

Both plates enable high exposure productivity, improved plate quality, and superior print quality.



Up to 42%
higher productivity*



Improved plate
and print quality

Illuminate your printing with Lightning LSE

The newest member of the DuPont™ Cyrel® Lightning range, Lightning LSE is a premium, engineered surface plate that delivers outstanding print consistency, optimized for UV-LED. With the new DuPont™ Cyrel® Lightning LSE plate, you can enjoy a stable, predictable output with exceptional consistency. The high density ink coverage ensures sharp text and fine details, and incredibly smooth vignettes.

EASY plates for every application from tag & label to flexible packaging and corrugated.



Quick Access Time



Cyrel® Fast Plate: Solvent Free



Precision & Consistency

*comparing LSH67 and DPR67

DuPont™ Cyrel® University

- Online flexo training at your fingertips

Hosted by **DuPont™ Cyrel® Flexographic Solutions**, **Cyrel® U** is a new **on-demand digital training platform** that offers comprehensive and certified training for Plate Room personnel, press operators, and mounters.



With courses specifically tailored for individual learning plans, **Cyrel® U helps you:**

- Quickly get new hires up to speed
- Keep your top plate room talent on the cutting edge
- Ensure that your entire team is "Cyrel® Certified"
- Dramatically reduce preventable errors in the Plate Room and Press Room
- Empower your team to consistently produce high quality plates

Available in a **range of languages**, our online courses ensure your team are working to the highest standards. **With Cyrel® U certified personnel**, your business can benefit from:

- Fewer plate remakes
- Increased press uptime
- Minimize material waste
- No more missed deadlines
- Higher client satisfaction
- Reduced overtime hours

Ready to **take your platemaking** to the **next level**?

Meet our **new on-demand digital training platform**, designed specifically for **Cyrel®** users.

With **four courses** to choose from, you can dive into:

- Plate Essentials
- Plate Optimization
- Platemaking Principles
- Plateroom Quality Control

With **Cyrel® University** you can...



Bring **new hires** up to **speed** fast!

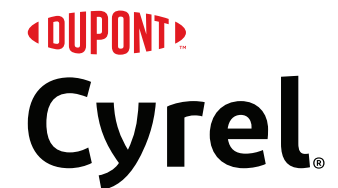


Assure quality with Cyrel® Certification



Minimize costly errors in the plate & press rooms

The use of the words "University," "Cyrel® Partner," "Cyrel® Platemaker I," "Cyrel® Platemaker II," "Cyrel® Platemaker III," and the like are solely to denote the increasing levels of experience achieved upon completion of certain courses within the Cyrel® online training. Such words are not related to education by or from any accredited college or university, globally.



Why Choose **Cyrel® University**?

- ✓ Bring new hires up to speed fast!
- ✓ Keep your top talent ahead of the curve
- ✓ Ensure your whole team is Cyrel® certified
- ✓ Minimize costly errors in the plate & press room
- ✓ Consistently produce high-quality plates



Your Education starts here
Discover how **Cyrel® U** can help your business

Driving sustainability in global packaging printing

For more than 50 years, DuPont™ Cyrel® has been a pioneer in flexography technology.

Throughout that time, we have remained committed to continuous innovation to bring flexographic printing solutions that help shape the future of packaging for a circular economy.

Cyrel® flexo printing helps today's plate makers and converters to seamlessly innovate packaging design and transition towards increasingly sustainable packaging, including recycled or recyclable materials and reusable formats.

Minimize waste

DuPont™ Cyrel® plates have been developed to generate substantially lower waste in a number of ways, including:

- Lower plate wear
- Longer print form life
- Less ink consumption
- Reduced board strength losses

Reduce VOC emissions

While Cyrel® workflows have been optimized to increase productivity, importantly this is achieved while also reducing VOC emissions and energy consumption. This enables plate makers and converters to maximize their resource use and deliver safer working environments.

Furthermore, **Cyrel® FAST thermal workflows** are **solvent-free**, making production, post-production, and waste treatment activities **safer and simpler**.

Print optimum quality faster, with a smaller environmental footprint

An internal Life Cycle Assessment (LCA) undertaken in 2025 showed that flexographic printing offers significant advantages over rotogravure. Moreover, the assessment also showed that the Cyrel® FAST system represents a huge saving if compared to solvent processing in platemaking.

Flexographic Printing & Platemaking Life Cycle Assessment

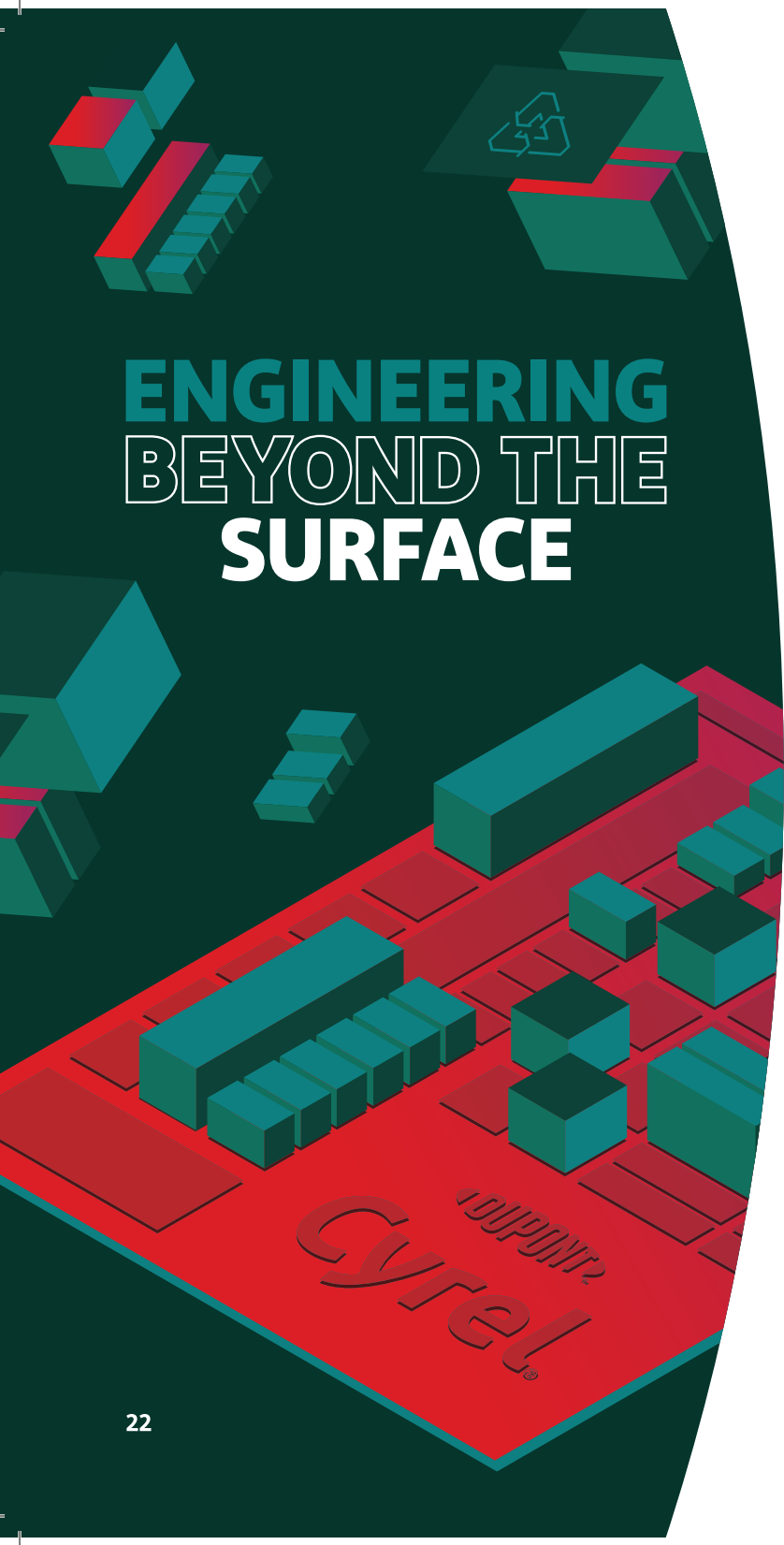
The latest update also includes global warming potential (GWP/CO₂ equivalent) impacts both with and without CO₂ uptake, allowing users to properly account for the biogenic carbon content that is mostly contained in the packaging materials.

Importantly, the updated results validated the findings of the original study.

- Digital thermal processing (Cyrel® FAST) is shown to have up to **48% lower GWP** impact, compared to digital solvent processing, without including the plate manufacturing
- When including the plate manufacturing, digital thermal has a **20% lower GWP** impact compared to solvent processing
- Other important observations were the benefits of “downgauging” - it was determined that 0.250 plate thickness for digital solvent processing has an up to **66% higher GWP** when CO₂ uptake is included

For full details on how DuPont™ Cyrel® can help you achieve your own sustainability goals, download the latest full LCA report here:





ENGINEERING BEYOND THE SURFACE

Introducing **DuPont™ Cyrel® ReNew**

Advancing Sustainability in Flexographic Platemaking

Renewable Content

>50% biocircular photopolymer content for a lower carbon footprint workflow without compromising on plate quality.

Drop-in Solution

Seamlessly integrates into your existing platemaking workflow without adjustments to current platemaking parameters or plate files.

Traceable Solution

Fully traceable supply chain and ISCC PLUS Certified mass-balance approach ensuring an authentic, verifiable sustainable impact.



**2026 FTA Sustainability
Excellence Award Winner**

Ready to switch to sustainable flexo?
Scan the QR code:



DUPONT™

Cyrel®

cyrel.com

Global Reach

A global presence that is close to our customers



Innovation Centers

Wilmington

Experimental Station Building 357
200 Powder Mill Road
Wilmington, DE 19803

Neu Isenburg

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63263 Neu Isenburg, Germany
Tel: (+49) 6102 18-0

São Paulo

Av. Sylvio Honório Penteado, 370, T5
Barueri – SP CEP: 06460-025, Brazil
Tel: 0800 047 5006

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Pudong New District, Shanghai 201203, PRC
Tel: (86) 21 3862 2000



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