

DuPont™ Cyrel® DFR

High Durometer Digital Plate

Applications

- Flexible packaging
- Tag and Label
- Envelopes
- Carrier bags
- Folding cartons
- Pre-print liner
- Beverage cartons



DuPont™ Cyrel® DFR is the high durometer plate for the DuPont thermal platemaking process, designed to meet the needs of high quality flexo with finest halftone, linework and solids.

Product Features

- Extremely rapid access time thanks to thermal plate processing without a drying step
- High ink transfer for outstanding tonal reproduction
- Image relief is clean and sharp for all plates
- High durability and clean printing for long, uninterrupted press runs
- Exceptional thickness uniformity. No plate swelling during platemaking
- Less make ready time on press, comes up to colour quickly
- High resistance to ozone and white light results in excellent storage capability

Printing Ink and Solvent Compatibility

Cyrel® DFR offers excellent compatibility with solvent-based, water-based inks, and UV inks.

Platemaking

The Cyrel® FAST thermal developer allows the production of Cyrel® FAST finished plates in less than one hour, making it the ideal just-in-time platemaking system for a market that demands quick turnaround at the highest possible quality. The Cyrel® FAST thermal developer delivers outstanding plate quality and uniformity. This processor has the ability to produce a finished plate without solvent washout. The Cyrel® EC/LF for exposing and light finishing plates is available to complement the Cyrel® FAST thermal developer.

Process of Use

DuPont™ Cyrel® DFR is designed to work with Cyrel® FAST thermal platemaking. Expose the plate through the back to establish the floor and minimise sensitivity. Back exposure varies according to relief required. Remove the protective coversheet, and image the plate with the Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in the Cyrel® FAST thermal developer. Finish the plate in a light finisher to eliminate surface tackiness. Post-expose the plate to ensure complete polymerisation.

Mounting

Microdot mounting devices are recommended for mounting Cyrel® DFR plates. The double sided adhesive should first be applied to the cylinder or sleeve—not the plate—to ensure easier and precise laydown. The polyester base will maintain accurate register even with large plates.

Storage—Raw Material

Store unexposed plates in a cool area (4–32°C, 40–90°F), away from direct sources of heat. Humidity control is not required. Cyrel® DFR is foam interleaved to provide maximum protection of the plate after manufacture and during transportation and storage. Plates should be stacked flat. Plates should not be exposed to direct sunlight or excessive white light. Continuous exposure to very high ozone concentrations should be avoided.

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Handling—Raw Material

Like all photopolymer plates, Cyrel® DFR plates should be handled under UV free light; e.g., fluorescent tubes covered with amber sleeves.

Storage—Finished Plates

After printing, plates should be thoroughly cleaned with compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Sizes Available	Thickness	Durometer	Image Reproduction	Minimum Positive Line Width	Minimum Isolated Dot Size	Max. Relief Depth
Cyrel® DFR 45	1.14 mm (0.045")	78–80 Sh A	1–98% @ 60 L/cm (150 lpi)	0.100 mm (4 mil)	300 µm	0.50 mm (0.020")
Cyrel® DFR 67	1.70 mm (0.067")	70–72 Sh A	1–98% @ 60 L/cm (150 lpi)	0.100 mm (4 mil)	300 µm	0.55 mm (0.022")
Cyrel® DFR 107	2.72 mm (0.107")	64–66 Sh A	1–98% @ 60 L/cm (150 lpi)	0.100 mm (4 mil)	300 µm	0.55 mm (0.022")

DuPont Advanced Printing brings together leading technologies and products for the printing and package printing industries. DuPont™ Cyrel® is one of the world's leading flexographic platemaking systems in digital and conventional formats, including DuPont™ Cyrel® brand photopolymer plates (analogue and digital), Cyrel® platemaking equipment, Cyrel® round sleeves, Cyrel® plate mounting systems and the revolutionary Cyrel® FAST thermal system.



cyrel.com/ap

For more information on DuPont™ Cyrel® or other DuPont products, please visit our website.

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