

DuPont™ Cyrel® Lightning LFH

UV LED Optimized Plate for Thermal Workflow

Applications

- Flexible Packaging
- Tag and Label
- Corrugated Pre-Print
- Folding Carton
- Beverage Carton





The DuPont™ Cyrel® Lightning series are the plates of choice for LED exposures to achieve high quality printing across a broad range of packaging segments. Cyrel® LFH is the photopolymer formulation for the thermal Cyrel® FAST workflow. It allows high exposure productivity, improved plate quality, and superior print quality.

Product Features

- Photopolymer formulation optimized for UV LED exposure, resulting in a flat-top dot profile
- High productivity and improved plate and print quality using state of the art UV LED exposure
- Esko XPS Crystal certified
- Crisp reproduction of the smallest features on the plate
- Ideally suited for advanced screening and patterning technologies
- Excellent tonal range
- Sharp type and open reverses
- · Low dot gain
- Outstanding run length

Printing Ink and Solvent Resistance

Cyrel® LFH offers excellent compatibility with solvent-based and water-based inks and good compatibility with UV inks.

Process of Use

Remove the protective coversheet and image the plate with the Cyrel® Digital Imager (CDI). Expose the back and the front of the plate using an LED exposure unit, such as the Esko XPS Crystal. Process the plate in the Cyrel® FAST thermal developer. Finish the plate in a light finisher to eliminate surface tackiness.

Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® LFH 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 required, as per details indicated in DuPont Cyrel® Material Handling, Storage and Transportation guidelines. Cyrel® LFH 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.

Handling-Raw Material

Cyrel® LFH 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.

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Sizes Available	Thickness	Durometer	Image Reproduction	Min. Positive Line Width	Min. Isolated Dot Size	Relief Depth
Cyrel® LFH 45	1.14 mm (0.045")	74 Sh A	1–98% @ 60 L/ cm (150lpi)	0.05 mm (2 mil)	100 µm	0.50 - 0.55 mm (0.0195 - 0.022")
Cyrel® LFH 67	1.70 mm (0.067")	66 Sh A	1-98% @ 60 L/ cm (150lpi)	0.05 mm (2 mil)	100 µm	0.50 - 0.55 mm (0.0195 - 0.022")

DuPont Industrial Solutions 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 (analog and digital), Cyrel® platemaking equipment, Cyrel® round sleeves, Cyrel® plate mounting systems and the revolutionary Cyrel® FAST thermal system.



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

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