



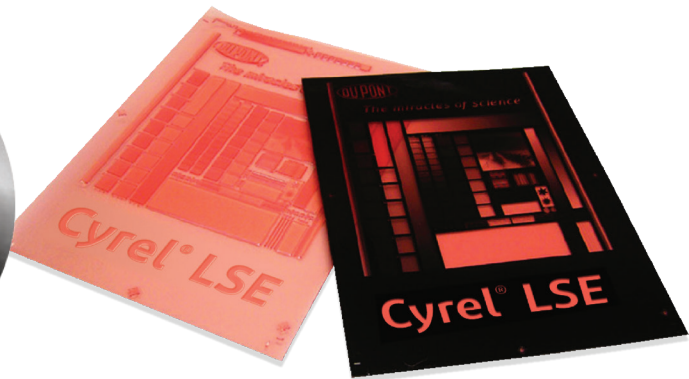
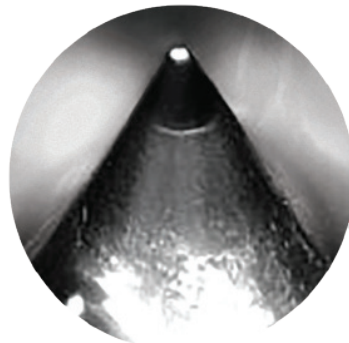
DuPont™ Cyrel® Lightning LSE

UV LED optimized plate for solvent workflow with Engineered Surface

Targeted Release: Late 2024

Applications

- Flexible Packaging



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® LSE is the engineered surface photopolymer formulation for the solvent workflow. It allows high exposure productivity, improves plate quality, and achieves superior print quality.

Product Features

- Engineered Surface and Photopolymer formulation optimized for UV LED exposure
- High productivity and improved plate and print quality using state of the art UV LED exposure
- Built-In surface texture enables high solid ink densities and smooth ink laydown
- Versatility: Can be used with or without digital surface screening
- Slated for Esko Crystal XPS database release in late 2024
- Excellent tonal range
- Smooth vignettes
- Sharp type and open reverses

Printing Ink and Solvent Resistance

Cyrel® LSE offers excellent compatibility with solvent-based 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® solvent processor to remove unexposed polymer. Finish the plate in a light finisher to eliminate surface tackiness.

Mounting

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 between 30% and 75% relative humidity (RH). Cyrel® LSE 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® LSE 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® LSE 45	1.14 mm (0.045")	74 Sh A	1-98% @ 60 L/cm (150lpi)	0.05 mm (2 mil)	50 µm	0.50 - 0.55 mm (0.0195 - 0.022")
Cyrel® LSE 67	1.70 mm (0.067")	65 Sh A	1-98% @ 60 L/cm (150lpi)	0.05 mm (2 mil)	50 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..



[cyrel.com](https://www.cyrel.com)

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

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