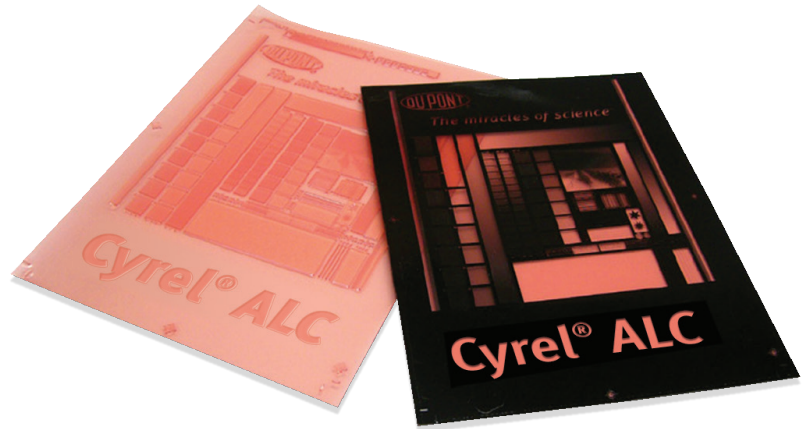


# DuPont™ Cyrel® ALC

Premium Analog Printing Plate for the Corrugated Board Industry

The latest addition to the award-winning DuPont™ Cyrel® family of flexographic plates is Cyrel® ALC, an innovative soft analog plate that uses a polymer formulation especially designed for the corrugated market, allowing it to perform exceptionally with water-based inks on recycled and thinner liner board. The plate has a permanent, visible, DuPont Cyrel® logo that distinguishes it from the other similar products in the market for this application.



## Better on recycled board

There is a new challenge for corrugated printers: box manufacturers are striving to down-gauge corrugated boards and use recycled paper, but do not want to compromise box strength. The DuPont™ Cyrel® ALC plate allows printers to overcome this challenge, by maintaining a high SID on such uneven substrates while simultaneously minimizing fluting and any compromise to board strength or integrity.

## Improved solid ink coverage

Printing uniformly across the width of the press without excessive over-impression was difficult since corrugated board is non-uniform and the plates are thick. The polymer used with the Cyrel® ALC plate is specially formulated to transfer as much ink as possible with minimal impression pressure for amazing solids.

## Less dot gain and fluting

Traditional harder durometer plates require more impression to get the ink into corrugated flute valleys, causing excessive dot gain. The softer durometer plate allows for much cleaner barcodes, positive type and reverse areas. One can see the difference immediately.

## Increased press impression latitude

While the Cyrel® ALC plate operates efficiently with less impression, it also allows for press operators to over-impress the plate to the board stock to transfer ink into the flute valleys of uneven substrates while still delivering incredible registration between colors.

## Virtually no board crush

Delivering the ink from the plate to the substrate in a way that provides excellent solid ink coverage while not weakening the board with over-impression is a challenge – but now achievable with the Cyrel® ALC plate. ECT values (Edge Crush Test) are kept virtually unchanged after printing.

**Save on ink, save on plates.** The Cyrel® ALC plate significantly improves solid ink coverage, especially on recycled board, allowing printers to use a lower volume anilox and less ink. Improved ink transfer with less impression means plates last longer.

We're confident the DuPont™ Cyrel® ALC plate will outperform other soft plates and allow you to print better on corrugated. Give us a call and try it today.

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| Sizes Available                            | Thickness           | Durometer | Image Reproduction          | Min. Positive Line Width | Min. Isolated Dot Size | Relief Depth                        |
|--|---------------------|-----------|-----------------------------|--------------------------|------------------------|-------------------------------------|
| <b>42 x 60"</b><br><b>(1067 x 1524 mm)</b> | 0.155"<br>(3.94 mm) | 28 Sh A   | 3-95% @<br>71 lpi (28 l/cm) | 0.18 mm<br>(7 mil)       | 300 µm                 | 0.060" – 0.080"<br>(1.50 – 2.00 mm) |
| <b>52 x 80"</b><br><b>(1321 x 2032 mm)</b> |                     |           |                             |                          |                        |                                     |
| <b>42 x 60"</b><br><b>(1067 x 1524 mm)</b> | 0.185"<br>(4.70 mm) | 27 Sh A   | 3-95% @<br>71 lpi (28 l/cm) | 0.18 mm<br>(7 mil)       | 300 µm                 | 0.070" – 0.87"<br>(1.80 – 2.20 mm)  |
| <b>42 x 60"</b><br><b>(1067 x 1524 mm)</b> | 0.250"<br>(6.34 mm) | 25 Sh A   | 3-95% @<br>65 lpi (26 l/cm) | 0.18 mm<br>(7 mil)       | 300 µm                 | 0.078" – 0.118"<br>(2.00 – 3.00 mm) |
| <b>52 x 80"</b><br><b>(1321 x 2032 mm)</b> |                     |           |                             |                          |                        |                                     |
| <b>42 x 80"</b><br><b>(1067 x 2032 mm)</b> | 0.276"<br>(7.01 mm) | 25 Sh A   | 3-95% @<br>55 lpi (22 l/cm) | 0.18 mm<br>(7 mil)       | 300 µm                 | 0.100" – 0.140"<br>(2.54 – 3.56 mm) |

## Printing Ink and Solvent Compatibility

Excellent compatibility with water-based inks.

## Process of Use

Expose the plate through the back to establish the floor and maximize sensitivity. Back exposure varies according to relief required. Remove the protective coversheet and image the plate with the negatives on Cyrel® Exposure Units. Process the plate in the Cyrel® solvent processor using Cyrel® Cylosol to remove unexposed polymer. Dry the washed plate in a Cyrel® dryer for 2.5 hrs. Finish the plate in a Cyrel® light finisher to eliminate surface tackiness.

## 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® ALC plates are 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® ALC plates should be handled under UV free light; e.g., fluorescent tubes covered with amber sleeves.

## Storage – Finished Plates

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

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



[cyrel.com/na](http://cyrel.com/na)

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

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