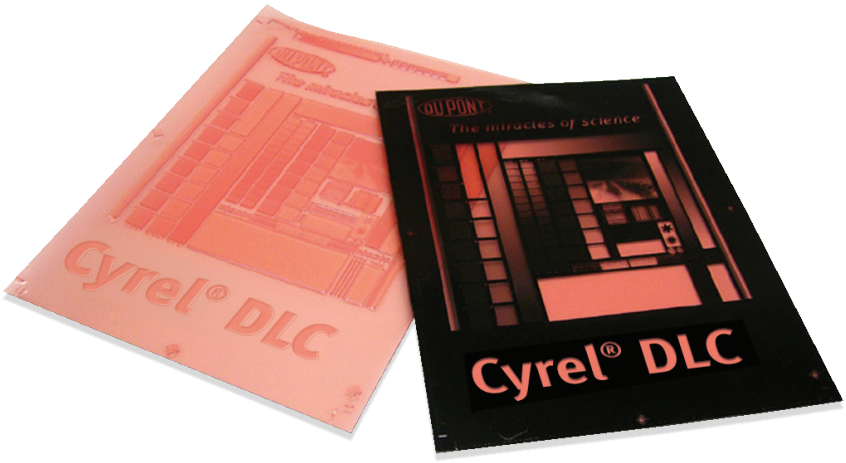
DuPont™ Cyrel® DLC

Low Durometer Digital Plate for the Corrugated Market

Applications

- Corrugated post-print
- Sacks



The newest addition to the award-winning DuPont™ Cyrel® family of flexographic plates is Cyrel® DLC, an innovative soft digital plate that uses a new polymer formulation especially designed for the corrugated market, allowing it to perform exceptionally with water-based inks on lower quality recycled and thinner liner board.

Better on recycled board

There is a new challenge for corrugated printers: box manufacturers are striving to down-gauge corrugated boards and use lower quality recycled paper, but do not want to compromise box strength. The DuPont™ Cyrel® DLC plate allows printers to overcome this challenge, transferring as much ink as possible onto uneven substrates to cover large solid areas without jeopardizing 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® DLC plate is specially formulated to transfer as much ink as possible with minimal impression 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. You can see the difference immediately.

Increased press impression latitude

While the Cyrel® DLC 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® DLC plate. ECT values (Edge Crush Test) are kept virtually unchanged after printing.

Save on ink, save on plates

The Cyrel® DLC 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® DLC 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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Low Durometer Digital Plate for the Corrugated Market

Sizes Available	Thickness	Durometer	Image Reproduction	Min. Positive Line Width	Min. Isolated Dot Size	Relief Depth*
Cyrel® DLC 112	0.112" (2.84 mm)	31 Sh A	3-95% @ 85 lpi 34 L/cm	0.125 mm (5mil)	250 µm	0.039" – 0.060" (1.00 – 1.50 mm)
Cyrel® DLC 125	0.125" (3.18 mm)	30 Sh A	3-95% @ 85 LPI 34 L/cm	0.125 mm (5mil)	250 µm	0.039" – 0.060" (1.00 – 1.50 mm)
Cyrel® DLC 155	0.155" (3.94 mm)	28 Sh A	3-95% @ 71 LPI 28 L/cm	0.125 mm (5mil)	500 µm	0.060" – 0.080" (1.50 – 2.00 mm)
Cyrel® DLC 170	0.170" (4.32 mm)	28 Sh A	3-95% @ 71 LPI 28 L/cm	0.20mm (7.5 mil)	500 µm	0.060" – 0.080" (1.50 – 2.00 mm)
Cyrel® DLC 185	0.185" (4.70 mm)	28 Sh A	3-95% @ 71 LPI 28 L/cm	0.20mm (7.5 mil)	500 µm	0.070" – 0.087" (1.80 – 2.20 mm)
Cyrel® DLC 197	0.197" (5.00 mm)	27 Sh A	3-95% @ 71 LPI 28 L/cm	0.20mm (7.5 mil)	500 µm	0.078" – 0.118" (2.00 – 3.00 mm)
Cyrel® DLC 217	0.217" (5.51 mm)	27 Sh A	3-95% @ 71 LPI 28 L/cm	0.20mm (7.5 mil)	500 µm	0.078" – 0.118" (2.00 – 3.00 mm)
Cyrel® DLC 237	0.237" (6.02 mm)	26 Sh A	3-95% @ 71 LPI 28 L/cm	0.20mm (7.5 mil)	500 µm	0.078" – 0.118" (2.00 – 3.00 mm)
Cyrel® DLC 250	0.250" (6.35 mm)	26 Sh A	3-95% @ 71 LPI 28 L/cm	0.20mm (7.5 mil)	500 µm	0.078" – 0.118" (2.00 – 3.00 mm)

*Relief depth equals the plate gauge thickness minus the floor thickness

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 Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in the Cyrel® solvent processor to remove unexposed polymer. Finish the plate in a 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® DLC 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® DLC 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.

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