

DuPont™ Cyrel® DPL

Medium Durometer High Resolution Digital Plate



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[DuPont Packaging Graphics](#) continues to be a global technology leader in the development and supply of flexographic printing systems. Our R&D team continues to develop innovative new solutions to help our customers expand their business by taking advantage of new and profitable opportunities in the growing flexographic packaging market. The DuPont Packaging Graphics portfolio of products includes 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](#).

DuPont™ Cyrel® Plates: Higher Quality at High Speed

DPL is a medium durometer digital plate with outstanding latitude and on-press performance resulting in a higher level of print quality and consistency. DPL continues the Cyrel® tradition of wide latitude and long run length while bringing the productive and economic benefits inherent in a fully digital platemaking workflow. In addition, since it was designed in tandem with Cyrel® FAST DFM, DPL provides maximum flexibility to the tradeshop that is also supporting remote CTP output.

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Applications

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

Product Features

- Ease of Use: Consistent manufacturing quality, wide exposure and processing latitude
- DuPont LAMs layer: Consistent laser imaging batch to batch
- High Resolution: Outstanding detail and minimum dot size
- Ink Laydown Clean printing, good solids, less mottle
- Robust: Long run length
- Designed to Match DFM: Single press profile works for DPL and DFM

Printing Ink and Solvent Compatibility

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



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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.

Mounting

Microdot mounting devices are recommended for mounting Cyrel® DPL 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® DPL 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® DPL 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.

Technical Data				
	Cyrel® DPL 45 Thickness 0.045 inch	Cyrel® DPL 67 Thickness 0.067 inch	Cyrel® DPL 107 Thickness 0.107 inch	Cyrel® DPL 112 Thickness 0.112 inch
Durometer	70 Sh A	58 Sh A	48 Sh A	48 Sh A
Image Reproduction	1–98% 70 L/cm/175 lpi	1–98% 70 L/cm/175 lpi	1–95% 60 L/cm/150 lpi	1–95% 60 L/cm/150 lpi
Minimum Positive Line Width	0.075 mm/3 mil	0.075 mm/3 mil	0.100 mm/4 mil	0.100 mm/4 mil
Minimum Isolated Dot Size	5 mil	5 mil	6 mil	6 mil
Relief Depth	0.45–0.58 mm / 0.018–0.023 inch	0.45–0.58 mm / 0.018–0.023 inch	0.50–0.63 mm / 0.020–0.025 inch	0.50–0.63 mm / 0.020–0.025 inch

For more information on DuPont™ Cyrel® or other DuPont Packaging Graphics products, please contact your local representative:

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