

DuPont™ Cyrel® DPN

Medium Hard Cyrel® Digital Plate With Highest Possible Resolution



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

Cyrel® DPN is a digital plate that offers the highest resolution of all digital plates and it offers very good ink compatibilities for solvent and UV inks.

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Applications

- Flexible packaging
- Tag & Label
- Folding cartons
- Beverage cartons

Product Features

- Excellent ink transfer permits superior printing uniformity
- Highest available exposure resolution
- Image relief is clean and sharp
- Finest text and lines with open reverses
- Exceptional thickness uniformity
- Less make ready time
- High resistance to ozone and white light results in excellent storage capability

Printing Ink and Solvent Compatibility

Cyrel® DPN offers excellent compatibility with UV, solvent-based and 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.

Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® DPN 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.



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Storage – Raw Material

Store unexposed plates in a cool area (4-32° C), away from direct sources of heat. Humidity control is not required. Cyrel® DPN 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® DPN 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.

Handling–Raw Material

Like all photopolymer plates, Cyrel® DFR 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® DPN 45 Thickness 1.14 mm/ 0.045 inch	Cyrel® DPN 67 Thickness 1.70 mm/ 0.067 inch	Cyrel® DPN 100 Thickness 2.54 mm/ 0.10 inch	Cyrel® DPN 112 Thickness 2.84 mm/ 0.112 inch
Durometer	76 Sh A	67 Sh A	56 Sh A	54 Sh A
Image Reproduction	1 – 98% 60 L/cm	1 – 98% 60 L/cm	1 – 98% 54 L/cm	1 – 98% 54 L/cm
Minimum positive line width	0.050 mm/ 2 mil	0.050 mm/ 2 mil	0.075 mm/ 3 mil	0.075 mm/ 3 mil
Minimum isolated dot size	200 µm	200 µm	250 µm	250 µm
Relief Depth	0.60 mm 0.024 inch	0.70 mm 0.028 inch	0.80 mm 0.031 inch	0.90 – 1.00 mm 0.035 – 0.039 inch

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

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