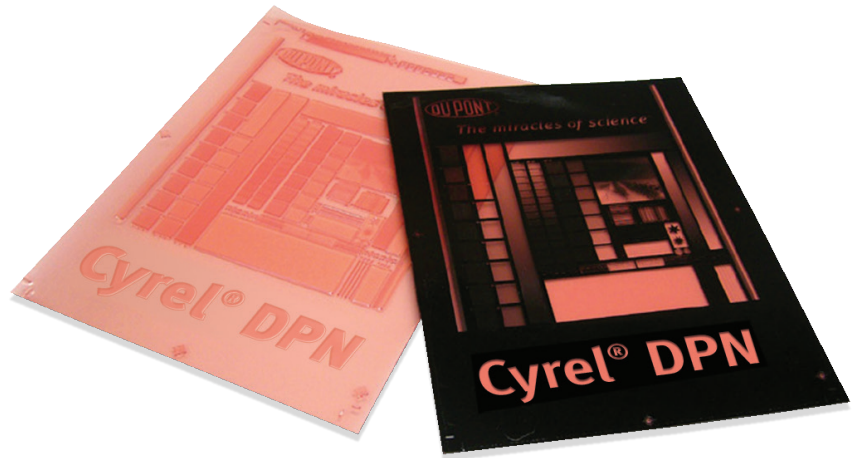


DuPont™ Cyrel® DPN

Medium Hard Cyrel® Digital Plate With Highest Possible Resolution

Applications

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



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.

Product Features and Benefits

- 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.

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.

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Technical Data

| | Thickness | Durometer | Image Reproduction | Min. Positive Line Width | Min. Isolated Dot Size | Relief Depth |
|-----------------------|----------------|-----------|--------------------|--------------------------|------------------------|----------------------------------|
| Cyrel® DPN 45 | 1.14 mm/0.045" | 76 Sh A | 1 – 98% 60 L/cm | 0.050 mm/ 2 mil | 200 µm | 0.60 mm 0.024" |
| Cyrel® DPN 67 | 1.70 mm/0.067" | 67 Sh A | 1 – 98% 60 L/cm | 0.050 mm/ 2 mil | 200 µm | 0.70 mm 0.028" |
| Cyrel® DPN 100 | 2.54 mm/0.10" | 56 Sh A | 1 – 98% 54 L/cm | 0.075 mm/ 3 mil | 250 µm | 0.80 mm 0.031" |
| Cyrel® DPN 112 | 2.84 mm/0.112" | 54 Sh A | 1 – 98% 54 L/cm | 0.075 mm/ 3 mil | 250 µm | 0.90 – 1.00 mm 0.035 – 0.039" |

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



cyrel.eu

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

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