

DuPont™ Cyrel® DSR

General Purpose Digital Plate for all Flexible Film and Paper Substrates



[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® Systems: Higher quality at high speed.

DuPont™ Cyrel® DSR is a high durometer digital plate designed for high quality printing across a broad range of packaging segments. DSR provides well balanced solid ink density and long tonal range and performs well with a wide selection of substrates and inks. Designed for maximum flexibility, DSR is very well suited for printing on rough, but flexible substrates.

DuPont™ Cyrel® DSR

Applications

- Flexible packaging
- Coated and uncoated paper
- Folding cartons
- Beverage cartons
- Tag & Label

Product Features

- Improved limpness for easier mounting and reduced plate-lift
- High solid ink density, without compromising dot gain or high light resolution
- Designed for use with water, solvent and UV inks
- Compatible with modern pre-press workflows such as HD-flexo, Cyrel® DigiFlow, etc.

Printing Ink and Solvent Compatibility

Cyrel® DSR offers excellent compatibility with solvent-based and water-based inks and UV inks.

For further details, contact your DuPont™ Cyrel® specialist.

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



Play Video



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Mounting

DuPont™ Cyrel® Microflex mounting devices are recommended for mounting Cyrel® DSR 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. Cyrel® DSR 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® DSR plates should be handled under UV free light.

Storage – Finished Plates

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

| Technical Data | Cyrel® DSR 45 Thickness 0.045" / 1.14 mm | Cyrel® DSR 67 Thickness 0.067" / 1.70 mm |
|------------------------------------|--|--|
| Durometer | 78–80 Sh A | 70–72 Sh A |
| Image Reproduction | 1–98% 60 L/cm | 1–98% 60 L/cm |
| Minimum Positive Line Width | 0.100 mm / 4 mil | 0.100 mm / 4 mil |
| Minimum Isolated Dot Size | 200 µm | 200 µm |
| Relief Depth | 0.016–0.020" / 0.4–0.5 mm | 0.018–0.022" / 0.45–0.55 mm |

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

www.cyrel.com/na

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