

DuPont™ Cyrel® NEOS

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

To help our customers gain competitive advantage in the global packaging graphics value chain.

DuPont™ Cyrel® NEOS is a medium soft analogue printing plate for the broadest range of applications, from narrow web label printing to oversized preprint. It combines low dot gain with high ink transfer for smooth solids.

DuPont™ Cyrel® NEOS

Applications

- Flexible packaging
- Film printing
- Tag & label
- Carrier bags
- Rough paper substrates
- Beverage cartons

Product Features

- High plate making and press latitude enables success under many conditions
- Even under changing conditions such as temperature and humidity Cyrel® NEOS offers a very consistent plate making performance
- High resistance to ozone and white light results in excellent storage capability

- Requires minimum impression settings, giving good balance between solids and screens
- Proprietary surface technology prints smooth solids
- Low surface tack makes handling easy

Printing ink and solvent compatibility

Cyrel® NEOS offers excellent compatibility with solvent-based, water-based inks and also with many UV 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 expose the front of the plate. Process the plate in the Cyrel® plate processor. Finish the plate in a light finisher to eliminate surface tackiness. Post-expose the plate to ensure complete polymerisation.



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Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® NEOS 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® NEOS 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® NEOS 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® NEOS 45 Thickness 1.14 mm/ 0.045 inch | Cyrel® NEOS 67 Thickness 1.70 mm/ 0.067 inch | Cyrel® NEOS 100 Thickness 2.54 mm/ 0.10 inch | Cyrel® NEOS 112 Thickness 2.84 mm/ 0.112 inch |
|-----------------------------|---|---|---|--|
| Durometer | 72 Sh A | 60 Sh A | 49 Sh A | 48 Sh A |
| Image Reproduction | 2 – 95% 48 L/cm | 2 – 95% 48 L/cm | 2 – 95% 48 L/cm | 2 – 95% 48 L/cm |
| Minimum positive line width | 0.10 mm/ 4 mil | 0.10 mm/ 4 mil | 0.15 mm/ 6 mil | 0.15 mm/ 6 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 | 1.00 mm/ 0.039 inch | 1.00 mm/ 0.039 inch |

For more information on DuPont™ Cyrel® or other DuPont Packaging Graphics products, please contact your local representative. Some contact information may have changed, for the most current information [CLICK HERE](#).

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