

DuPont™ Cyrel® NEOS

MEDIUM SOFT ANALOGUE PRINTING PLATE

DuPont Packaging Graphics

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

DuPont Packaging Graphics continues to be a global technology leader in supplying flexographic printing systems. Our scientists continue to develop unique solutions based on new technologies to help our customers expand their business by taking advantage of new profitable packaging printing opportunities. DuPont Packaging Graphics portfolio of products includes 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® NEOS is DuPont's analogue medium soft 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.

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



DuPont™ Cyrel® NEOS

- 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.

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.



The miracles of science™

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

All technical information set out herein is provided free of charge and is based on technical data, which DuPont believes to be reliable. It is intended for use by persons having skill, at their own discretion and risk. The handling precaution information contained herein is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use are outside of our control we make no warranties express or implied in relation thereto and therefore cannot accept any liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe any patents.

Du Pont de Nemours (Deutschland) GmbH
DuPont Imaging Technologies
Hugenottenallee 173
63263 Neu-Isenburg
Deutschland
Tel: +49 (0) 6102 18 3324

Du Pont (U.K.) Limited
DuPont Imaging Technologies
Wedgwood Way, Stevenage
Hertfordshire SG1 4QN
United Kingdom
Tel: +44 (0) 1438 734485



To learn more, visit www.packaging-graphics.dupont.com
or contact your Cyrel® specialist



The miracles of science™

DuPont Packaging Graphics
“Advancing Flexography”