

DuPont™ Cyrel® NOWS

Medium Durometer High Resolution Analog Plate

Applications

- Flexible packaging
- Tag & Label
- Folding Cartons
- Tissue Wrappers
- Beverage Cartons



DuPont™ Cyrel® NOWS is an analog medium-high durometer printing plate for high quality process and combination printing. Cyrel® NOWS uses proprietary new surface technology to achieve the lowest dot gain, with high ink transfer for smoother solids while retaining all the positive attributes of NOWS.

Product Features

- High resolution—holds 1–95% in screen rulings of 150 lpi
- Matte-look finished plate surface gives improved image visibility
- Fits well with platemaking techniques like FlexoCal or single point light sources
- Excellent solvent and ozone resistance
- Prints all image elements with high fidelity
- Requires minimum impression settings, leading to long plate life, open reverses
- Proprietary technology prints high density, smooth solids
- Eliminates the need for build-up tape under solid areas in combination plates
- Easy de-mounting from cylinder and sleeve without delamination
- Low surface tack makes handling easy, and job stays cleaner on press

Printing Ink and Solvent Compatibility

Cyrel® NOWS offers excellent compatibility with solvent-based, water-based and 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 polymerization.

Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® NOWS 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 Plates

Store unexposed plates in a cool area (40–90°F, 4–32°C,), away from direct sources of heat. Humidity control is not required. Cyrel® NOWS 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.

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Handling – Raw Material

Like all photopolymer plates, Cyrel® NOWS 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 a compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Storage and Handling

Store flat between 40–90°F, relative humidity 70%, minimum shelf life of one year.

Technical Data

	Durometer	Image Reproduction	Min. Positive Line Width	Min. Isolated Dot Size	Relief Depth
Cyrel® NOWS 45	76 Sh A	1–95% / 60 L/cm / 150 lpi	4 mil 0.10 mm	200 µm	0.020–0.025" 0.50–0.635 mm
Cyrel® NOWS 67	68 Sh A	1–95% / 60 L/cm / 150 lpi	4 mil 0.10 mm	200 µm	0.023–0.028" 0.58–0.71 mm
Cyrel® NOWS 100	55 Sh A	1–95% / 48 L/cm / 120 lpi	6 mil 0.15 mm	250 µm	0.039" 1.00 mm
Cyrel® NOWS 107	55 Sh A	1–95% / 48 L/cm / 120 lpi	6 mil 0.15 mm	250 µm	0.039" 1.00 mm
Cyrel® NOWS 112	54 Sh A	1–95% / 48 L/cm / 120 lpi	6 mil 0.15 mm	250 µm	0.039" 1.00 mm
Cyrel® NOWS 124	52 Sh A	1–95% / 48 L/cm / 120 lpi	6 mil 0.15 mm	250 µm	0.039" 1.00 mm

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.



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

cyrel.eu

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