

DuPont™ Cyrel® NOW

UNIVERSAL ANALOGUE MEDIUM DUROMETER 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® NOW is the most universal analogue medium durometer printing plate. It provides an excellent balanced performance for high quality halftones whilst still giving appealing solids at the same time. Cyrel® NOW is a very robust flexo plate which performs extremely well under demanding conditions.

Applications

Cyrel® NOW can be used for most flexographic printing applications. From flexible packaging to label printing, Cyrel® NOW should always be the printer's first choice when looking for a high quality plate type. Its superior ink transfer and high resolution offer significant advantages to the quality conscious printer.



DuPont™ Cyrel® NOW

- Flexible packaging
- Film printing
- Tag & Label
- Carrier bags
- Folding cartons

Product Features

- Very quick drying times enable increased productivity
- High resolution – holds dots down to 1% in screen rulings of 54 l/cm and finer
- Very consistent platemaking
- Fits well with plate making techniques like FlexoCal
- High resistance to ozone and white light results in excellent storage capability
- High resistance towards mechanical and chemical influences

- Requires minimum impressions settings, leading to long press-life
- Excellent ink transfer permits superior printing uniformity

Printing ink and solvent compatibility

Cyrel® NOW 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 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.



The miracles of science™

Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® NOW 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® NOW 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® NOW 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® NOW 45 Thickness 1.14 mm/ 0.045 inch	Cyrel® NOW 67 Thickness 1.70 mm/ 0.067 inch	Cyrel® NOW 90 Thickness 2.54 mm/ 0.10 inch
Durometer	76 Sh A	68 Sh A	59 Sh A
Image Reproduction	2 – 95% 54 L/cm	2 – 95% 54 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
Minimum isolated dot size	200 µm	200 µm	250 µm
Relief Depth	0.60 mm/ 0.024 inch	0.70 mm/ 0.028 inch	1.00 mm/ 0.039 inch

	Cyrel® NOW 100 Thickness 2.54 mm/ 0.10 inch	Cyrel® NOW 107 Thickness 2.54 mm/ 0.10 inch	Cyrel® NOW 112 Thickness 2.84 mm/ 0.112 inch
Durometer	55 Sh A	55 Sh A	54 Sh A
Image Reproduction	2 – 95% 48 L/cm	2 – 95% 48 L/cm	2 – 95% 48 L/cm
Minimum positive line width	0.15 mm/ 6 mil	0.15 mm/ 6 mil	0.15 mm/ 6 mil
Minimum isolated dot size	250 µm	250 µm	250 µm
Relief Depth	1.00 mm/ 0.039 inch	1.00 mm/ 0.039 inch	1.00 mm/ 0.039 inch

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



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“Advancing Flexography”