DuPont™ Cyrel® NOWS

RUGGED, HIGH-PERFORMANCE ANALOG PLATE

DuPont Packaging Graphics

What is NOWS?

NOWS is an improved version of the NOW product incorporating NCS surface technology to achieve improved print performance. Most all of the current NOW properties are identical including plate-making, solvent resistance and physical properties like durometer and limpness. The new printing surface results in improvements in image contrast, surface tack, and printing performance.

Which customers would benefit from Cyrel® NOWS?

NOWS was designed to exhibit excellent printing properties across a broad spectrum of applications. The product delivers very high ink transfer with high densities and uniform solids along with improved dot gain performance. Customers looking to achieve high quality process and combination printing across a range of substrates will find NOWS to be a superior product. NOWS retains all the chemical and ozone resistance of the existing NOW product so it can be successfully used in a variety of environments and with all ink types. Testing of NOWS has been successful in numerous segments including flexible packaging, tag and label, folding carton, tissue wrappers and beverage containers.

Advantages of Cyrel© NOWS

- High resolution – holds 1-95% in screen rulings of 150 lpi.
- Matte-look finished plate surface gives improved image visibility.
- Fits well with plate making 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.
- Easy de-mounting from cylinder and sleeve without delamination.
- Low surface tack makes handling easy, and job stays cleaner on press.

Technical Data

	45 NOWS	67 NOWS
Plate Thickness w/ coversheet Plate to plate: +/- .001 Coversheet thickness	.050 .005	.0725 .005
Durometer (for thickness)	75	70
Photospeed		
Back Exposure*	50-70 sec	100-140 sec
Main Exposure (1%, 150 lpi)	6-10 min	10-14 min
Washout Time (Optisol/3000BP)	300 sec	300 sec
Drying Time	60-90 min	60-120 min
Finishing Time	4-8 Min	6-10 Min
Post Exposure Time	0 Min	0 Min

*Back exposures are for .018-.022" relief (.045) and .022-.025" relief (.067).
All data generated in DuPont platemaking systems at Chestnut Run Plaza and is intended as a guide only. Customers must test the product in their own platemaking systems for optimum performance.

Print Performance

As in all products print results will vary depending on print conditions however in controlled tests we have found the following:

- NOWS provides the highest solid ink density and most uniform solids of all plates tested
- NOWS generally produces lower dot gain values versus NOW and for other plates of comparable durometer. Only HIQS (higher durometer) achieved lower dot gains.
- Performance gains were noted on films, coated board and coated and uncoated paper stock, though gains will be less obvious on uncoated, rough, highly absorbent substrates.
- In customer trials several accounts have noted NOWS appears to print very well with lower impression pressures resulting in improved dot gain and type fidelity.
- Plate cell patterning has been successfully tested with NOWS yielding further improvements in solid ink transfer.

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