

DuPont™ Cyrel® DRC

Economical Analog Printing Plate for the Corrugated Board Industry



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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 (analog and digital), Cyrel® platemaking equipment, Cyrel® round sleeves, Cyrel® plate mounting systems and the revolutionary Cyrel® FAST thermal system.

Cyrel® DRC is the robust plate for printing line work & solids on any corrugated board substrate.

Applications

Cyrel® DRC is used for line work, solid printing and limited halftone printing on all kinds of corrugated board substrates from coarse C to fine E and F-flutings.

- Corrugated board
- Paper substrates

Product Features

- Good platemaking latitude – no masking necessary
- Shore hardness adapted to use with different board flutings

Printing ink and solvent compatibility

Cyrel® DRC offers excellent compatibility with 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.

Storage – Raw Material

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® DRC 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® DRC plates should be handled under UV free light; e.g. fluorescent tubes covered with amber sleeves.



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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.

Availability

Cyrel® DRC is available in thickness 125, 155, 170, 185, 197, 217 237 and 250 inches.

Formats available are 42 x 60 inches (106.7 x 152.4cm) and 52 x 80 inches (132.0 x 203.2 cm).

Technical Data				
	Cyrel® DRC 125 Thickness 3.18 mm/ 0.125 inch	Cyrel® DRC 155 Thickness 3.94 mm/ 0.155 inch	Cyrel® DRC 170 Thickness 4.32 mm – 0.170 inch	Cyrel® DRC 185 Thickness 4.70 mm/ 0.185 inch
Durometer	38 Sh A	37 Sh A	36 Sh A	36 Sh A
Image Reproduction	3 – 95% / 42 L/cm	3 – 95% / 36 L/cm	3 – 95% / 28 L/cm	3 – 95% / 28 L/cm
Minimum positive line width	0.175 mm/ 7 mil	0.35 mm/ 14 mil	0.35 mm/ 14 mil	0.35 mm/ 14 mil
Minimum isolated dot size	250 µm	500 µm	500 µm	500 µm
Relief Depth	1.0 – 1.5 mm/ 0.039 – 0.059 inch	1.5 – 2.0 mm/ 0.059 – 0.079 inch	1.5 – 2.0 mm/ 0.059 – 0.079 inch	1.5 – 2.5 mm/ 0.059 – 0.098 inch
	Cyrel® DRC 197 Thickness 5.00 mm/ 0.197 inch	Cyrel® DRC 217 Thickness 5.51 mm/ 0.217 inch	Cyrel® DRC 237 Thickness 6.02 mm/ 0.237 inch	Cyrel® DRC 250 Thickness 6.35 mm/ 0.250 inch
Durometer	36 Sh A	35 Sh A	35 Sh A	34 Sh A
Image Reproduction	3 – 95% / 28 L/cm	3 – 95% / 28 L/cm	3 – 95% / 28 L/cm	3 – 95% / 28 L/cm
Minimum positive line width	0.35 mm/ 14 mil	0.35 mm/ 14 mil	0.35 mm/ 14 mil	0.35 mm/ 14 mil
Minimum isolated dot size	500 µm	500 µm	500 µm	500 µm
Relief Depth	2.5 mm – 0.098 inch	2.5 mm – 0.098 inch	2.5 mm – 0.098 inch	2.5 mm – 0.098 inch

For more information on DuPont™ Cyrel® or other DuPont Packaging Graphics products, please contact your local representative:

United States

DuPont Packaging Graphics
Chestnut Run Plaza, Bldg. 702
974 Centre Road
Wilmington, DE 19805
800-345-9999

Canada

DuPont Packaging Graphics
1919 Minnesota Court
Mississauga, ON L5N 0C9
Canada
905-816-3238

www.cyrel.com/na