DuPont™ Cyrel® DFM

MEDIUM SOFT HIGH RESOLUTION DIGITAL PLATE FOR CYREL® FAST

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.

DuPont™ Cyrel® DFM

Cyrel® FAST plates in one hour or less!Cyrel® DFM is the medium soft plate for DuPont's thermal platemaking process, designed to meet the needs of high quality flexo with fine halftone, linework and solids.

Applications

- Flexible packaging
- Tag & Label
- Envelopes
- Carrier bags
- Folding cartons
- Pre-print liner
- Beverage cartons

Product Features

- Extremely rapid access time thanks to thermal plate processing without drying
- Excellent ink transfer permits superior printing uniformity
- Higher durability for long print runs
- High exposure resolution results in better quality reproduction
- Image relief is clean and sharp
- Exceptional thickness uniformity – No plate swelling during platemaking
- Less make ready time on press
- High resistance to ozone and white light results in excellent storage capability

Printing ink and solvent compatibility

Cyrel® DFM offers excellent compatibility with UV, solvent-based and water-based inks.

Platemaking

The Cyrel® FAST thermal developer allows the production of Cyrel® FAST finished plates in less than one hour, making it the ideal just-in-time platemaking system for a market that demands quick turnaround at the highest possible quality. The Cyrel® FAST thermal developer delivers outstanding plate quality and uniformity. This processor has the ability to produce a finished plate without solvent washout. The Cyrel® EC/LF for exposing and light-finishing plates is available to complement the Cyrel® FAST thermal developer.

Process of use

DFM is designed to work with Cyrel® FAST thermal platemaking. 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 image the plate with the Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in the Cyrel® FAST thermal developer. Finish

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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® DFM 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® DFM 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® DFM 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® DFM 45 Thickness 1.14 mm/ 0.045 inch	**Cyrel® DFM 67 Thickness 1.70 mm/ 0.067 inch**	**Cyrel® DFM 100 Thickness 2.54 mm/ 0.10 inch**	**Cyrel® DFM 112 Thickness 2.84 mm/ 0.112 inch**
Durometer	70 Sh A	58 Sh A	47 Sh A	48 Sh A
Image Reproduction	1 – 98% 60 L/cm	1 – 98% 60 L/cm	1 - 98% 54 L/cm	1 – 98% 54 L/cm
Minimum positive line width	0.050 mm / 2 mil	0.050 mm / 2 mil	0.075 mm / 3 mil	0.075 mm / 3 mil
Minimum isolated dot size	200 µm	200 µm	250 µm	250 µm
Relief Depth	0.55 mm/ 0.022 inch	0.70 mm/ 0.028 inch	0.70 – 0.80 mm/ 0.028 – 0.031 inch	0.80 – 0.90 mm/ 0.031 – 0.035 inch

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

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"Advancing Flexography"

Printed in Europe (10/07)

PDS-EU0001-UK