

# DuPont™ Cyrel® DFH

HIGH DUROMETER 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.

**Cyrel® FAST plates in one hour or less!  
Cyrel® DFH is the high durometer plate for DuPont's thermal platemaking process, designed to meet the needs of high quality flexo with finest 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



DuPont™ Cyrel® DFH

- 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® DFH 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 platemak-

ing 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

DFH 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



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Cyrel® FAST thermal developer. Finish 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® DFH 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® DFH 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® DFH 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.

<b>Technical Data</b>			
	<b>Cyrel® DFH 45 Thickness 1.14 mm / 0.045 inch</b>	<b>Cyrel® DFH 67 Thickness 1.70 mm / 0.067 inch</b>	<b>Cyrel® DFH 100 Thickness 2.54 mm / 0.10 inch</b>
<b>Durometer</b>	75 Sh A	70 Sh A	66 Sh A
<b>Image Reproduction</b>	1 – 98 % 60 L/cm	1 – 98 % 60 L/cm	1 – 98 % 54 L/cm
<b>Minimum positive line width</b>	0.050 mm / 2 mil	0.050 mm / 2 mil	0.075 mm / 3 mil
<b>Minimum isolated dot size</b>	200 µm	200 µm	250 µm
<b>Relief Depth</b>	0.55 mm / 0.022 inch	0.70 mm / 0.028 inch	0.70 – 0.80 mm / 0.028 – 0.031 inch

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To learn more, visit [www.packaging-graphics.dupont.com](http://www.packaging-graphics.dupont.com)  
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**“Advancing Flexography”**