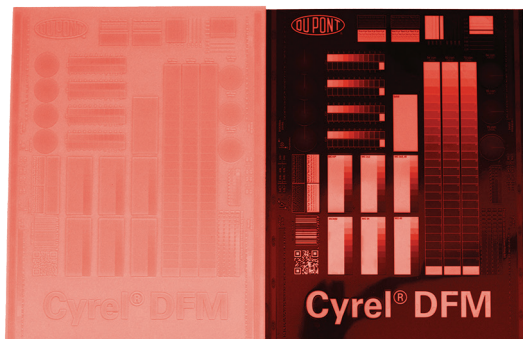


# DuPont™ Cyrel® DFM

## Medium Durometer High Resolution Digital Plate for Cyrel® FAST



DuPont™ Cyrel® DFM

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.

### DuPont™ Cyrel® Plates: Higher quality at high speed

Cyrel® DFM is a medium durometer plate for the FAST thermal platemaking process designed to meet the needs of high quality flexo with fine halftone, linework and solids.

### Applications

- Flexible packaging
- Tag and 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 flexibility

### 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 and high 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.



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# DuPont™ Cyrel® DFM

## Medium Durometer High Resolution Digital Plate for Cyrel® FAST

### Process of Use

DuPont™ Cyrel® DFM is designed to work with Cyrel® FAST thermal platemaking. Expose the plate through the back to establish the floor and minimize 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 the plate in a light finisher to eliminate surface tackiness. Post-expose the plate to ensure complete polymerization.

### Mounting

Microdot 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, 40–90°F), 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

Like all photopolymer plates, 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 0.045 inch	Cyrel® DFM 67 Thickness 0.067 inch	Cyrel® DFM 100 Thickness 0.100 inch	Cyrel® DFM 107 Thickness 0.107 inch	Cyrel® DFM 112 Thickness 0.112 inch
Durometer	70 Sh A	58 Sh A	48 Sh A	48 Sh A	48 Sh A
Image Reproduction	1–98% 70 L/ cm/175 lpi	1–98% 70 L/ cm/175 lpi	1–95% 60 L/ cm/150 lpi	1–95% 60 L/ cm/150 lpi	1–95% 60 L/ cm/150 lpi
Minimum Positive Line Width	0.075mm/3 mil	0.075mm/3 mil	0.100mm/4 mil	0.100mm/4 mil	0.100mm/4 mil
Minimum Isolated Dot Size	5 mil	5 mil	6 mil	6 mil	6 mil
Max. Relief Depth	0.58 mm / 0.023 inch	0.58 mm / 0.023 inch	0.63 mm / 0.025 inch	0.63 mm / 0.025 inch	0.63 mm / 0.025 inch

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

#### United States

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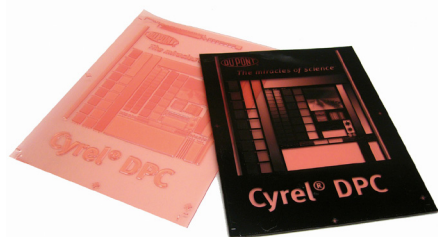
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[www.cyrel.com/na](http://www.cyrel.com/na)

# DuPont™ Cyrel® DPC

## The Low Durometer Digital Plate for the Corrugated Market



DuPont™ Cyrel® DPC

[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](#).

DuPont™ Cyrel® Systems: Higher quality at high speed.

**DuPont™ Cyrel® DPC is a soft digital plate which has been developed especially for the corrugated market. Highest quality results are achieved on any type of corrugated board using water-based inks.**

### DuPont™ Cyrel® DPC

#### Applications

- Corrugated post-print
- Sacks
- Rough paper surfaces

#### Product Features

- Excellent ink transfer permits superior printing uniformity
- High exposure resolution results in better quality reproduction
- Image relief is clean and sharp
- Exceptional exposure latitude allows single exposure without masking
- Excellent thickness uniformity
- Less make ready time
- High resistance to ozone and white light results in excellent storage capability

#### Printing Ink and Solvent Compatibility

Cyrel® DPC 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 image the plate with a Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in a Cyrel® solvent processor to remove unexposed polymer. Finish the plate in a light finisher to eliminate surface tackiness.

#### 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® DPC is foam interleaved to provide maximum protection of the plate after manufacture, and during transportation and storage.



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# DuPont™ Cyrel® DPC

## The Low Durometer Digital Plate for the Corrugated Market

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

DuPont™ Cyrel® DPC 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 a compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Technical Data				
	Cyrel® DPC 112 Thickness 0.112" / 2.84 mm	Cyrel® DPC 125 Thickness 0.125" / 3.18 mm	Cyrel® DPC 155 Thickness 0.155" / 3.94 mm	Cyrel® DPC 250 Thickness 0.250" / 6.35 mm
<b>Durometer</b>	38 Sh A	37 Sh A	36 Sh A	35 Sh A
<b>Image Reproduction</b>	1–98% / 48 L/cm	1–98% / 48 L/cm	1–98% / 42 L/cm	2–95% / 34 L/cm
<b>Minimum Positive Line Width</b>	5 mil / 0.125 mm	5 mil / 0.125 mm	12 mil / 0.300 mm	12 mil / 0.300 mm
<b>Minimum Isolated Dot</b>	250 µm	275 µm	500 µm	500 µm
<b>Relief Depth</b>	0.039" / 1.00 mm	0.039–0.059" / 1.00–1.50 mm	0.059–0.079" / 1.50–2.00 mm	0.098–0.118" / 2.50–3.00 mm

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

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# DuPont™ Cyrel® NOWS

## Medium Durometer High Resolution Analog Plate



DuPont™ Cyrel® NOWS

[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](#).

DuPont™ Cyrel® Systems: Higher quality at high speed.

**DuPont™ Cyrel® NOWS is an analog medium-high durometer printing plate for high quality process and combination printing. Cyrel® NOWS uses proprietary new surface technology to achieve the lowest dot gain, with high ink transfer for smoother solids while retaining all the positive attributes of NOWS.**

### DuPont™ Cyrel® NOWS

#### Applications

- Flexible Packaging
- Tag & Label
- Folding Cartons
- Tissue Wrappers
- Beverage Cartons

#### Product Features

- High resolution—holds 1–95% in screen rulings of 150 lpi
- Matte-look finished plate surface gives improved image visibility
- Fits well with platemaking 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
- Eliminates the need for build-up tape under solid areas in combination plates
- Easy de-mounting from cylinder and sleeve without delamination
- Low surface tack makes handling easy, and job stays cleaner on press

#### Printing Ink and Solvent Compatibility

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



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# DuPont™ Cyrel® NOWS

## Medium Durometer High Resolution Analog Plate

### 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 polymerization.

### Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® NOWS 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 Plates

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® NOWS 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

Like all photopolymer plates, Cyrel® NOWS 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 a compatible solvent before storing. They may

be stored on cylinders, sleeves or demounted and stored flat.

### Storage and Handling

Store flat between 40–90°F, relative humidity 70%, minimum shelf life of one year.

Technical Data	Cyrel® NOWS 45	Cyrel® NOWS 67	Cyrel® NOWS 100	Cyrel® NOWS 107	Cyrel® NOWS 112	Cyrel® NOWS 125
Durometer	76 Sh A	68 Sh A	55 Sh A	55 Sh A	54 Sh A	52 Sh A
Image Reproduction	1–95% / 60 L/cm / 150 lpi	1–95% / 60 L/cm / 150 lpi	1–95% / 48 L/cm / 120 lpi	1–95% / 48 L/cm / 120 lpi	1–95% / 48 L/cm / 120 lpi	1–95% / 48 L/cm / 120 lpi
Minimum Positive Line Width	4 mil 0.10 mm	4 mil 0.10 mm	6 mil 0.15 mm	6 mil 0.15 mm	6 mil 0.15 mm	6 mil 0.15 mm
Minimum Isolated	200 µm	200 µm	250 µm	250 µm	250 µm	250 µm
Relief Depth	0.020–0.025" 0.50–0.635 mm	0.023–0.028" 0.58–0.71 mm	0.039" 1.00 mm	0.039" 1.00 mm	0.039" 1.00 mm	0.039" 1.00 mm

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

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[www.cyrel.com/na](http://www.cyrel.com/na)

# DuPont™ Cyrel® TDR

Premium Analogue Printing Plate for the Corrugated Board Industry



DuPont™ Cyrel® TDR

[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® TDR with its tailored characteristics combines low dot gain and strong solids on any corrugated substrate. It shows least wash boarding effects even on B and coarse flutings like C-fluting.**

## DuPont™ Cyrel® TDR

### Applications

Cyrel® TDR offers easy plate making and trouble free press runs. It can be used by any printer or tradeshop seeking the best possible printing quality on corrugated substrates as well as other paper substrates printed with water-based inks.

- Corrugated board
- Paper

### Product Features

- High plate making and press latitude – success under many conditions.
- Adapted shore hardness and resilience lead to the least wash boarding effect
- Good resistance towards mechanical impacts
- Requires minimum impression settings, giving good balance between solids and screens

### Printing ink and solvent compatibility

Cyrel® TDR 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 (4-32° C), away from direct sources of heat. Humidity control is not required. Cyrel® TDR 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.



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# DuPont™ Cyrel® TDR

## Premium Analogue Printing Plate for the Corrugated Board Industry

### Handling – Raw Material

Cyrel® TDR 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.

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

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[www.cyrel.com/na](http://www.cyrel.com/na)

Technical Data			
	<b>Cyrel® TDR 112 Thickness 2.84 mm/ 0.112 inch</b>	<b>Cyrel® TDR 125 Thickness 3.18 mm/ 0.125 inch</b>	<b>Cyrel® TDR 155 Thickness 3.94 mm/ 0.155 inch</b>
Durometer	38 Sh A	37 Sh A	36 Sh A
Image Reproduction	3 – 95% / 42 L/cm	3 – 95% / 42 L/cm	3 – 95% / 36 L/cm
Minimum positive line width	0.175 mm/ 7 mil	0.175 mm/ 7 mil	0.35 mm/ 14 mil
Minimum isolated dot size	250 µm	250 µm	500 µm
Relief Depth	1.00 mm/ 0.039 inch	1.0 – 1.5 mm/ 0.039 – 0.059 inch	1.5 – 2.0 mm/ 0.059 – 0.079 inch
	<b>Cyrel® TDR 170 Thickness 4.32 mm / 0.170 inch</b>	<b>Cyrel® TDR 185 Thickness 4.70 mm/ 0.185 inch</b>	<b>Cyrel® TDR 197 Thickness 5.00 mm/ 0.197 inch</b>
Durometer	35 Sh A	35 Sh A	35 Sh A
Image Reproduction	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
Minimum isolated dot size	500 µm	500 µm	500 µm
Relief Depth	1.5 – 2.0 mm/ 0.059 – 0.079 inch	1.5 – 2.5 mm/ 0.059 – 0.098 inch	2.5 mm / 0.098 inch
	<b>Cyrel® TDR 217 Thickness 5.51 mm/ 0.217 inch</b>	<b>Cyrel® TDR 237 Thickness 6.02 mm/ 0.237 inch</b>	<b>Cyrel® TDR 250 Thickness 6.35 mm/ 0.250 inch</b>
Durometer	34 Sh A	34 Sh A	33 Sh A
Image Reproduction	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
Minimum isolated dot size	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



# DuPont™ Cyrel® DPL

## Medium Durometer High Resolution Digital Plate



DuPont™ Cyrel® DPL

[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](#).

### DuPont™ Cyrel® Plates: Higher Quality at High Speed

**DPL is a medium durometer digital plate with outstanding latitude and on-press performance resulting in a higher level of print quality and consistency. DPL continues the Cyrel® tradition of wide latitude and long run length while bringing the productive and economic benefits inherent in a fully digital platemaking workflow. In addition, since it was designed in tandem with Cyrel® FAST DFM, DPL provides maximum flexibility to the tradeshop that is also supporting remote CTP output.**

### DuPont™ Cyrel® DPL

#### Applications

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

#### Product Features

- Ease of Use: Consistent manufacturing quality, wide exposure and processing latitude
- DuPont LAMs layer: Consistent laser imaging batch to batch
- High Resolution: Outstanding detail and minimum dot size
- Ink Laydown Clean printing, good solids, less mottle
- Robust: Long run length
- Designed to Match DFM: Single press profile works for DPL and DFM

#### Printing Ink and Solvent Compatibility

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



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# DuPont™ Cyrel® DPL

## Medium Durometer High Resolution Digital Plate

### 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 image the plate with the Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in the Cyrel® solvent processor to remove unexposed polymer. Finish the plate in a light finisher to eliminate surface tackiness.

### Mounting

Microdot mounting devices are recommended for mounting Cyrel® DPL 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, 40–90°F), away from direct sources of heat. Humidity control is not required. Cyrel® DPL 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.

[www.cyrel.com/na](http://www.cyrel.com/na)

### Handling—Raw Material

Like all photopolymer plates, Cyrel® DPL 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® DPL 45 Thickness 0.045 inch	Cyrel® DPL 67 Thickness 0.067 inch	Cyrel® DPL 107 Thickness 0.107 inch	Cyrel® DPL 112 Thickness 0.112 inch
Durometer	70 Sh A	58 Sh A	48 Sh A	48 Sh A
Image Reproduction	1–98% 70 L/cm/175 lpi	1–98% 70 L/cm/175 lpi	1–95% 60 L/cm/150 lpi	1–95% 60 L/cm/150 lpi
Minimum Positive Line Width	0.075 mm/3 mil	0.075 mm/3 mil	0.100 mm/4 mil	0.100 mm/4 mil
Minimum Isolated Dot Size	5 mil	5 mil	6 mil	6 mil
Relief Depth	0.45–0.58 mm / 0.018–0.023 inch	0.45–0.58 mm / 0.018–0.023 inch	0.50–0.63 mm / 0.020–0.025 inch	0.50–0.63 mm / 0.020–0.025 inch

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

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# DuPont™ Cyrel® DFR

## High Durometer Digital Plate



[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](#).

**DuPont™ Cyrel® DFR is the high durometer plate for the DuPont thermal platemaking process, designed to meet the needs of high quality flexo with finest halftone, linework and solids.**

### DuPont™ Cyrel® DFR

#### Applications

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

#### Product Features

- Extremely rapid access time thanks to thermal plate processing without a drying step
- High ink transfer for outstanding tonal reproduction
- Image relief is clean and sharp for all plates
- High durability and clean printing for long, uninterrupted press runs
- Exceptional thickness uniformity. No plate swelling during platemaking

- Less make ready time on press, comes up to color quickly
- High resistance to ozone and white light results in excellent storage capability

#### Printing Ink and Solvent Compatibility

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



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# DuPont™ Cyrel® DFR

## High Durometer Digital Plate

### Process of Use

DuPont™ Cyrel® DFR is designed to work with Cyrel® FAST thermal platemaking. Expose the plate through the back to establish the floor and minimize 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 the plate in a light finisher to eliminate surface tackiness. Post-expose the plate to ensure complete polymerization.

### Mounting

Microdot mounting devices are recommended for mounting Cyrel® DFR 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, 40–90°F), away from direct sources of heat. Humidity control is not required. Cyrel® DFR 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

Like all photopolymer plates, Cyrel® DFR 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® DFR 45 Thickness 1.14 mm/0.045 inch	Cyrel® DFR 67 Thickness 1.70 mm/0.067 inch	Cyrel® DFR 107 Thickness 2.72 mm/0.107 inch
Durometer	78–80 Sh A	70–72 Sh A	64–66 Sh A
Image Reproduction	1–98% / 60 L/cm/150 lpi	1–98% / 60 L/cm/150 lpi	1–98% / 60 L/cm/150 lpi
Minimum Positive Line Width	0.100 mm / 4 mil	0.100 mm / 4 mil	0.100 mm / 4 mil
Minimum Isolated Dot Size	300 µm	300 µm	300 µm
Max. Relief Depth	0.50 mm/0.020 inch	0.55 mm/0.022 inch	0.55 mm/0.022 inch

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

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[www.cyrel.dupont/na](http://www.cyrel.dupont/na)

# DuPont™ Cyrel® Performance Plate

## DFP Engineered Surface Digital Plate



Cyrel® Performance Plate engineered surface (@ 200 magnification)

[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](#).

DuPont™ Cyrel® Systems: Higher quality at high speed.

**DuPont™ Cyrel® Performance Plate DFP is the high ink transfer, combination plate for the DuPont thermal platemaking process, designed to meet the needs of high quality flexo with finest halftone, linework and solids.**

### DuPont™ Cyrel® Performance Plate

#### Applications

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

- Less make ready time on press, comes up to color quickly
- Resistance to ozone and white light results in excellent storage capability

#### Printing Ink and Solvent Compatibility

Cyrel® Performance Plates offer excellent compatibility with solvent-based, water-based inks and UV inks.

#### Product Features

- Extremely rapid access time thanks to thermal plate processing without a drying step
- Exceptional ink transfer provides smooth, high density solids while maintaining the highest quality highlights. Results in outstanding contrast and dynamic range
- Rugged and clean printing for long, uninterrupted print runs. Image relief is clean and sharp
- Exceptional thickness uniformity. No plate swelling during platemaking

#### 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.



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# DuPont™ Cyrel® Performance Plate

## DFP Engineered Surface Digital Plate

### Process of Use

DuPont™ Cyrel® DFP is designed to work with Cyrel® FAST thermal plate processors. Expose the plate through the back to establish the floor and activate the plate. Back exposure varies according to relief required. Remove the protective coversheet and image the plate with a Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in a Cyrel® FAST processor to remove unexposed polymer. Finish the plate in a light finisher to eliminate surface tackiness. Post-expose the plate to ensure complete polymerization.

### Mounting

DuPont™ Cyrel® Microflex mounting devices are recommended for mounting Cyrel® Performance 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.

### Handling – 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® DFP 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. Like all photopolymer plates, Cyrel® Performance 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 a compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Technical Data		
Dependant on Processing Conditions	Cyrel® DFP 45 Thickness 1.14 mm / 0.045 inch	Cyrel® DFP 67 Thickness 1.70 mm / 0.067 inch
<b>Durometer</b>	78–80	70–72
<b>Image Reproduction</b>	1–98% 150 lpi 60 l/cm	1–98% 150 lpi 60 l/cm
<b>Minimum Positive Line Width</b>	0.075 mm (3 mil)	0.075 mm (3 mil)
<b>Minimum Isolated Dot</b>	200 micron (7.2 mil, 0.2 mm)	200 micron (7.9 mil, 0.2 mm)
<b>Relief Depth</b>	0.018–0.022 inch / 0.45–0.55 mm	0.018–0.022 inch / 0.45–0.55 mm

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

[www.cyrel.dupont/na](http://www.cyrel.dupont/na)

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# DuPont™ Cyrel® Performance Plate

## DSP Engineered Surface Digital Plate



Cyrel® Performance Plate engineered surface (@ 200 magnification)

[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](#).

DuPont™ Cyrel® Systems: Higher quality at high speed.

**DuPont™ Cyrel® Performance Plate DSP is the digital plate of choice for those segments requiring superior solid ink density and long tonal range across a broad range of packaging segments. DSP has been designed to perform with a wide array of substrates and inks.**

### DuPont™ Cyrel® Performance Plate

#### Applications

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

- Sharp type and open reverses
- Low dot gain
- High resistance to ozone and white light results in excellent storage capability

#### Printing Ink and Solvent Compatibility

Cyrel® Performance Plates offer excellent compatibility with solvent-based, water-based inks and UV inks.

#### Product Features

- Exceptional ink transfer provides smooth, high density solids while maintaining the highest quality highlights. Results in outstanding contrast and dynamic range.
- Long tonal range and high ink density means Cyrel® DSP is a true combination plate, suitable for a variety of segments
- Rugged and clean printing for long, uninterrupted print runs
- Less make ready time on press, comes up to color quickly

#### 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 image the plate with the Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in the Cyrel® solvent processor to remove unexposed polymer. Finish the plate in a light finisher to eliminate surface tackiness.



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# DuPont™ Cyrel® Performance Plate

## DSP Engineered Surface Digital Plate

### Mounting

DuPont™ Cyrel® Microflex mounting devices are recommended for mounting Cyrel® Performance 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.

### Handling – 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® DSP 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. Like all photopolymer plates, Cyrel® Performance 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 a compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Technical Data		
Dependant on Processing Conditions	Cyrel® DSP 45 Thickness 1.14 mm / 0.045 inch	Cyrel® DSP 67 Thickness 1.70 mm / 0.067 inch
<b>Durometer</b>	78–80	70–72
<b>Image Reproduction</b>	1–98% 150 lpi 60 l/cm	1–98% 150 lpi 60 l/cm
<b>Minimum Positive Line Width</b>	0.05 mm (2 mil)	0.05 mm (2 mil)
<b>Minimum Isolated Dot</b>	150 micron (6 mil, 0.15 mm)	150 micron (6 mil, 0.15 mm)
<b>Relief Depth</b>	0.018–0.022 inch / 0.45–0.55 mm	0.018–0.022 inch / 0.45–0.55 mm

For more information on DuPont™ Cyrel® or other DuPont Packaging Graphics products, please contact your local representative: [www.cyrel.dupont/na](http://www.cyrel.dupont/na)

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# DuPont™ Cyrel® Varnishing Plates

CYREL® VSA, VTA, VSD AND VTD

## Preliminary Technical Data Sheet

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

**The DuPont™ Cyrel® varnishing plates are ideal for varnishing and special effect ink and coatings applications are available for all relevant imaging (analogue/digital) and processing (solvent/thermal) systems.**

### Applications

These photopolymer plates offer high quality print finishing on folding carton, such as food packaging, cigarettes, cosmetics, etc. They are also used in commercial printing for spot coating of catalogues, calendars, and brochures.

Cyrel® coating plates can be used for inline and offline coating of:

- Aqueous coating
- UV-Lacquer
- Metallic ink
- Iriodin® pigmented ink

Cyrel® varnishing plates are available for all common processing technologies:

- analogue imaging & solvent processing
- analogue imaging & thermal processing
- digital imaging & solvent processing
- digital imaging & thermal processing

### Product Features

- Excellent coating and ink transfer permits superior coating
- High resolution and exact register results in fine detail and complex forms can be spot coated and printed in the coating tower
- High durability for long print runs
- Image relief is clean and sharp
- Can be used again and again without any loss of registration

### Printing Ink and Solvent Compatibility

Cyrel® coating plates offer excellent compatibility with UV-lacquers and water-based inks. The enforced polyester base will maintain accurate registration even with large plates.

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Please refer to the DuPont™ Cyrel® processing handbook for additional information.

Technical Data				
	Cyrel® VSA	Cyrel® VTA	Cyrel® VSD	Cyrel® VTD
<b>Durometer</b>	73 Sh A	73 Sh A	76 Sh A	75 Sh A
<b>Image Reproduction</b>	2–95% @ 48 L/cm	2–95% @ 48 L/cm	1–98% @ 60 L/cm	1–98% @ 60 L/cm
<b>Minimum Positive Line Width</b>	0.25 mm	0.25 mm	0.05 mm	0.05 mm
<b>Minimum Isolated Dot Size</b>	250 µm	250 µm	200 µm	200 µm
<b>Relief Depth</b>	0.4–0.5 mm	0.4–0.5 mm	0.4–0.5 mm	0.4–0.5 mm
<b>Large Format</b>	50 x 65 (127 x 165 cm)	42 x 60 (106 x 152 cm)	50 x 65 (127 x 165 cm)	42 x 60 (106 x 152 cm)
<b>Medium Format</b>	35 x 47.25 (90 x 120 cm)	35 x 47.25 (90 x 120 cm)	35 x 47.25 (90 x 120 cm)	35 x 47.25 (90 x 120 cm)
<b>Processing</b>	solvent/analogue	thermal/analogue	solvent/digital	thermal/digital



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

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# DuPont™ Cyrel® DSR

**General Purpose Digital Plate for all Flexible Film and Paper Substrates**



[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](#).

DuPont™ Cyrel® Systems: Higher quality at high speed.

**DuPont™ Cyrel® DSR is a high durometer digital plate designed for high quality printing across a broad range of packaging segments. DSR provides well balanced solid ink density and long tonal range and performs well with a wide selection of substrates and inks. Designed for maximum flexibility, DSR is very well suited for printing on rough, but flexible substrates.**

## DuPont™ Cyrel® DSR

### Applications

- Flexible packaging
- Coated and uncoated paper
- Folding cartons
- Beverage cartons
- Tag & Label

### Product Features

- Improved limpness for easier mounting and reduced plate-lift
- High solid ink density, without compromising dot gain or high light resolution
- Designed for use with water, solvent and UV inks
- Compatible with modern pre-press workflows such as HD-flexo, Cyrel® DigiFlow, etc.

### Printing Ink and Solvent Compatibility

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

For further details, contact your DuPont™ Cyrel® specialist.

### 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 image the plate with a Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in a Cyrel® solvent processor to remove unexposed polymer. Finish the plate in a light finisher to eliminate surface tackiness.



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# DuPont™ Cyrel® DSR

## General Purpose Digital Plate for all Flexible Film and Paper Substrates

### Mounting

DuPont™ Cyrel® Microflex mounting devices are recommended for mounting Cyrel® DSR 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. Cyrel® DSR 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® DSR plates should be handled under UV free light.

### Storage – Finished Plates

After printing, plates should be thoroughly cleaned with a compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Technical Data		
	Cyrel® DSR 45 Thickness 0.045" / 1.14 mm	Cyrel® DSR 67 Thickness 0.067" / 1.70 mm
<b>Durometer</b>	78–80 Sh A	70–72 Sh A
<b>Image Reproduction</b>	1–98% 60 L/cm	1–98% 60 L/cm
<b>Minimum Positive Line Width</b>	0.100 mm / 4 mil	0.100 mm / 4 mil
<b>Minimum Isolated Dot Size</b>	200 µm	200 µm
<b>Relief Depth</b>	0.016–0.020" / 0.4–0.5 mm	0.018–0.022" / 0.45–0.55 mm

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

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# DuPont™ Cyrel® DFUV

Highest Print Quality with UV Inks



DuPont™ Cyrel® DFUV

[Preliminary Technical Data Sheet](#)

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DuPont™ Cyrel® Systems: Higher quality at high speed.

**Cyrel® FAST DFUV is a thermal process plate for use with UV inks that comes to color quickly and prints smooth and dense solids, without compromising dot gain, highlights and resolution. DFUV is specifically designed for shorter, narrow web print runs using UV inks on high priced stock, where minimizing the startup waste is essential. Cyrel® DFUV comes up to color almost immediately and is designed for very fine screens.**

## DuPont™ Cyrel® DFUV

### Applications

High-end substrates including:

- Pressure sensitive labels
- Self-adhesive labels
- Shrink wrap labels
- Wrap around labels
- Tickets/tags/boards

### Product Features

- Comes up to color very quickly and predictably for reduced setup time and reduced material waste
- Extremely rapid access time thanks to thermal plate processing where no drying step is needed
- High and uniform/smooth UV ink transfer for outstanding tonal reproduction
- Very high resolution capability enabling > 200 lpi screens
- Excellent for printed security features and micro text down 1 pt
- High durability on press

- Exceptional thickness uniformity with no plate swelling during platemaking
- High resistance to ozone and white light results in excellent storage capability

### Printing Ink and Solvent Compatibility

Cyrel® DFUV is specifically designed for use with UV inks due to its excellent compatibility and resistance. Also offers comparable compatibility with 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® ECLF for exposing and light finishing plates is available to complement the Cyrel® FAST thermal developer.



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# DuPont™ Cyrel® DFUV

## Highest Print Quality with UV Inks

### Process of Use

DuPont™ Cyrel® DFUV is designed to work with Cyrel® FAST thermal platemarking. Expose the plate through the back to establish the floor and minimize sensitivity. Back exposure varies according to relief required. Remove the protective coversheet, and image the plate with a Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in the Cyrel® FAST thermal developer. Finish the plate in a light finisher to eliminate surface tackiness. Post-expose the plate to ensure complete polymerization.

### Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® DFUV 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 (40–90°F, 4–32°C), away from direct sources of heat. Humidity control is not required. Cyrel® DFUV 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

Like all photopolymer plates, Cyrel® DFUV 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 a compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Technical Data		
	Cyrel® DFUV 45 Thickness 0.045" / 1.14 mm	Cyrel® DFUV 67 Thickness 0.067" / 1.70 mm
<b>Durometer</b>	76 Sh A	73 Sh A
<b>Image Reproduction</b>	1–98% / 80 L/cm/200 lpi	1–98% / 80 L/cm/200 lpi
<b>Minimum Positive Line Width</b>	4 mil / 0.100 mm	4 mil / 0.100 mm
<b>Minimum Isolated Dot Size</b>	200 µm	200 µm
<b>Relief Depth</b>	max. 0.022" / max. 0.55 mm	max. 0.026" / max. 0.65 mm

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

[www.cyrel.com/na](http://www.cyrel.com/na)

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# DuPont™ Cyrel® DVS

## Solvent Process Digital Plate for Varnishing



DuPont™ Cyrel® DVS

[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](#).

DuPont™ Cyrel® Systems: Higher quality at high speed.

**The DuPont™ Cyrel® DVS plates are ideal for varnishing and special effect ink and coatings applications.**

### DuPont™ Cyrel® DVS

#### Applications

These photopolymer plates offer high quality print finishing on folding cartons, such as food packaging, cigarettes, cosmetics, etc. They are also used in commercial printing for spot coating of catalogs, calendars, books and brochures.

Cyrel® DVS plates can be used for inline and offline coating of:

- Aqueous coating
- UV-Lacquer
- Metallic ink
- DuPont™ Iriodin® pigmented ink

#### Product Features

- Excellent coating and ink transfer permits superior coating
- High resolution and exact register results in fine detail and complex forms can be spot coated and printed in the coating tower
- High durability for long print runs
- Image relief is clean and sharp
- Can be used again and again without any loss of registration

#### Printing Ink and Solvent Compatibility

Cyrel® DVS plates offer excellent compatibility with UV-lacquers and water-based inks. The enforced polyester base will maintain accurate registration even with large plates.



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# DuPont™ Cyrel® DVS

## Solvent Process Digital Plate for Varnishing

### 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 image the plate with the Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in the Cyrel® solvent processor to remove unexposed polymer. Finish the plate in a light finisher to eliminate surface tackiness.

### Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® DVS 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, 40–90°F), away from direct sources of heat. Humidity control is not required. Cyrel® DVS 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

Like all photopolymer plates, Cyrel® DVS plates should be handled under UV free light; e.g. fluorescent tubes covered with amber sleeves.

Technical Data	
	<b>Cyrel® DVS Thickness 1,14 mm / 0,045"</b>
Durometer	73 Sh A
Image Reproduction	1–98% / 60 L/cm
Minimum Positive Line Width	0,050 mm / 2 mil
Minimum Isolated Dot Size	200 µm
Relief Depth	0,55 mm / 0,022"
Processing	Solvent / Digital

### Storage – Finished Plates

After printing, plates should be thoroughly cleaned with a compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

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

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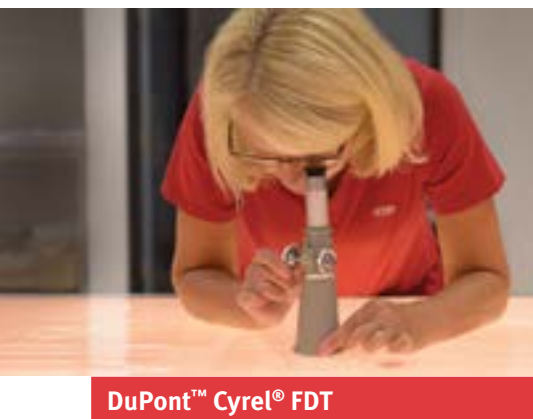
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[www.cyrel.dupont/na](http://www.cyrel.dupont/na)

# DuPont™ Cyrel® FDT

## Universal Medium Durometer Analog Plate for Thermal Platemaking Process



DuPont™ Cyrel® FDT

[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](#).

DuPont™ Cyrel® Systems: Higher quality at high speed.

**Cyrel® FAST plates in one hour or less! Cyrel® FDT is a universal analog medium durometer printing plate. It provides a balance between high quality halftones and solid ink coverage at the same time. Cyrel® FDT is a very robust flexo plate which performs extremely well under demanding conditions.**

### DuPont™ Cyrel® FDT

#### Applications

- Flexible packaging
- Tag & Label
- Carrier bags
- Folding cartons
- Beverage cartons

#### Product Features

- Rapid access time thanks to thermal plate processing without drying
- High ink transfer permits superior printing uniformity
- High 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® FDT offers best 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® ECLF for exposing and light finishing plates is available to complement the Cyrel® FAST thermal developer.

#### Process of Use

DuPont™ Cyrel® FDT is designed to work with Cyrel® FAST thermal platemaking. Expose the plate through the back to establish the floor and maximize sensitivity. Back exposure



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# DuPont™ Cyrel® FDT

## Universal Medium Durometer Analog Plate for Thermal Platemaking Process

varies according to relief required. Remove the protective coversheet, and image the plate with a Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in the Cyrel® FAST thermal developer. Finish the plate in a light finisher to eliminate surface tackiness. Post-expose the plate to ensure complete polymerization.

### Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® FDT 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, 40–90°F), away from direct sources of heat. Humidity control is not required. Cyrel® FDT 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

Like all photopolymer plates, Cyrel® FDT 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 a compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Technical Data				
	Cyrel® FDT 45 Thickness 1.14 mm / 0.045"	Cyrel® FDT 67 Thickness 1.70 mm / 0.067"	Cyrel® FDT 100 Thickness 2.54 mm / 0.100"	Cyrel® FDT 112 Thickness 2.84 mm / 0.112"
Durometer	76 Sh A	68 Sh A	55 Sh A	54 Sh A
Image Reproduction	2–95% / 54 L/cm	2–95% / 54 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	0.20 mm / 8 mil	0.20 mm / 8 mil
Minimum Isolated Dot Size	250 µm	250 µm	300 µm	300 µm
Max. Relief Depth	0.55 mm / 22 mil	0.65 mm / 25 mil	0.75 mm / 29 mil	0.85 mm / 33 mil

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

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# DuPont™ Cyrel® DPR

**Robust Digital Plate for High Quality Printing**



DuPont™ Cyrel® DPR

[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](#).

DuPont™ Cyrel® Plates: Higher quality at high speed

**Cyrel® DPR is the digital plate of choice for high quality printing across a broad range of packaging segments. DPR has been designed to perform with a wide array of substrates**

## DuPont™ Cyrel® DPR

### Applications

- Flexible packaging
- Tag & Label
- Folding cartons
- Beverage cartons

### Product Features

- Outstanding run length
- Excellent tonal range
- Sharp type and open reverses
- Low dot gain
- High exposure resolution results in better quality reproduction on press
- Image relief is clean and sharp
- High resistance to ozone and white light results in excellent storage capability

### Printing Ink and Solvent Compatibility

Cyrel® DPR offers excellent compatibility with solvent-based and water-based inks, and limited compatibility with select UV 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 image the plate with the Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in the Cyrel® solvent processor to remove unexposed polymer. Finish the plate in a light finisher to eliminate surface tackiness.



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# DuPont™ Cyrel® DPR

## Robust Digital Plate for High Quality Printing

### Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® DPR 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, 40-90° F), away from direct sources of heat. Humidity control is not required. Cyrel® DPR 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® DPR 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.

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Technical Data		
	Cyrel® DPR 45 Thickness 0.045 inch/1.14 mm	Cyrel® DPR 67 Thickness 0.067 inch/1.70 mm
Durometer	76 Sh A	69 Sh A
Image Reproduction	1–98% 60 L/cm	1–98% 60 L/cm
Minimum positive line width	2 mil–0.05 mm	2 mil–0.05 mm
Minimum isolated dot size	200 µm	200 µm
Relief Depth	0.016–0.024 inch 0.4–0.6 mm	0.016–0.024 inch 0.4–0.6 mm

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

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# DuPont™ Cyrel® DRC

## Economical Analog Printing Plate for the Corrugated Board Industry



DuPont™ Cyrel® DRC

[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.**

### DuPont™ Cyrel® DRC

#### 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.



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# DuPont™ Cyrel® DRC

## Economical Analog Printing Plate for the Corrugated Board Industry

### Handling – Raw Material

Cyrel® DRC 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.

### 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:

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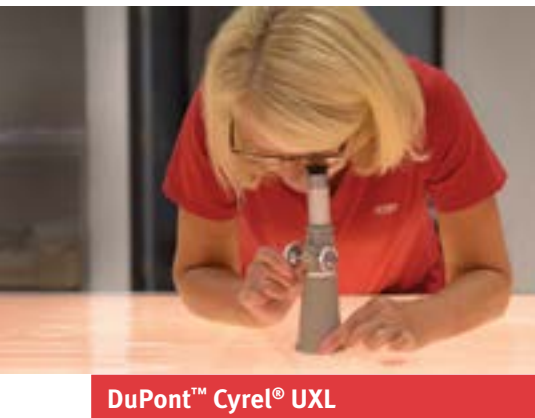
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# DuPont™ Cyrel® UXL

## Medium Durometer Analog Plate



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DuPont™ Cyrel® Plates: Higher quality at high speed.

**Cyrel® UXL, the standard for wide latitude in uncapped plates.**

### DuPont™ Cyrel® UXL

#### Applications

- Flexible Packaging
- Tag & Label
- Folding Carton
- Beverage Carton

#### Product Features

- Outstanding exposure latitude for single exposure without masking for even the most critical designs.
- Superior results on press- fine linework, clean reverses, good impression latitude.
- Outstanding ink transfer for uniform printing of images and solids
- Wide range of ink compatibility
- Uniform thickness assures minimum make-ready and good print quality.

#### Printing Ink and Solvent Compatibility

Cyrel® UXL offers excellent compatibility with solvent-based, water-based and many UV 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 polymerization.

#### Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® UXL 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



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# DuPont™ Cyrel® UXL

## Medium Durometer Analog Plate

### Storage – Raw Plates

Store unexposed plates in a cool area (4–32°C, 40–90°F), away from direct sources of heat. Humidity control is not required. Cyrel® UXL 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 Materials

Like all photopolymer plates, Cyrel® UXL plates should be handled under UV free light; e.g., fluorescent tubes covered with amber sleeves.

### Storage – Finished Plate

After printing, plates should be thoroughly cleaned with compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

### Storage and Handling

Store flat between 40–90° F, relative humidity <70%, minimum shelf life of one year.

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

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# DuPont™ Cyrel® FAST DFC

The Low Durometer Cyrel® FAST Digital Plate for the White Plate Market



DuPont™ Cyrel® DFC

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DuPont™ Cyrel® Systems: Higher quality at high speed.

**DuPont™ Cyrel® FAST DFC is a low durometer digital Cyrel® FAST plate which has been introduced especially for the needs of the flexible packaging printer who is looking to achieve high opacity and low mottle while minimizing white ink consumption.**

## DuPont™ Cyrel® FAST DFC

### Applications

- White ink application in flexible packaging printing

### Product Features

- Excellent ink transfer permits superior printing uniformity
- High exposure resolution results in better quality reproduction
- Image relief is clean and sharp
- High resistance to ozone and white light results in excellent storage capability
- Low durometer reduces press bounce in high speed flexible packaging presses
- High resolution holds surface screening well for maximum white ink transfer

### Printing Ink and Solvent Compatibility

Cyrel® FAST DFC offers excellent compatibility with waterbased inks. Due to the aggressive nature of some blends, DFC is recommended as a single-use plate when printing white ink for flexible packaging.

### 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 processor produces finished plates without solvents or processing liquids of any kind. The Cyrel® EC/LF unit for exposing and light finishing plates is available to complement the Cyrel® FAST thermal developer.

PRELIMINARY



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# DuPont™ Cyrel® FAST DFC

## The Low Durometer Cyrel® FAST Digital Plate for the White Plate Market

### 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 image the plate with a Cyrel® Digital Imager (CDI). Expose the front of the plate surface. Process the plate in a Cyrel® FAST thermal developer. Finish the plate in a light finisher to eliminate surface tackiness.

### 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® FAST DFC 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

DuPont™ Cyrel® FAST DFC 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 a compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Technical Data	Cyrel® DFC 045 Thickness 0.045" 2.84 mm	Cyrel® DFC 067 Thickness 0.067" 2.84 mm	Cyrel® DFC 107 Thickness 0.107" 2.84 mm
<b>Durometer</b>	41 Sh A	39 Sh A	38 Sh A
<b>Image Reproduction</b>	1–98% @ 120 LPI – 48 L/cm	1–98% @ 120 LPI – 48 L/cm	1–98% @ 120 LPI – 48 L/cm
<b>Minimum Positive Line Width</b>	5 mil/0.125 mm	5 mil/0.125 mm	5 mil/0.125 mm
<b>Minimum Isolated Dot</b>	250 µm	250 µm	250 µm
<b>Relief Depth</b>	0.020" 0.50 mm	0.020" – 0.025" 0.50 – 0.65mm	0.025" – 0.039" 0.65 – 1.00 mm

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

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