

# DuPont™ Cyrel® TDR

CYREL® TDR IS DUPONT'S PREMIUM ANALOGUE PRINTING PLATE FOR THE CORRUGATED BOARD INDUSTRY

## 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.

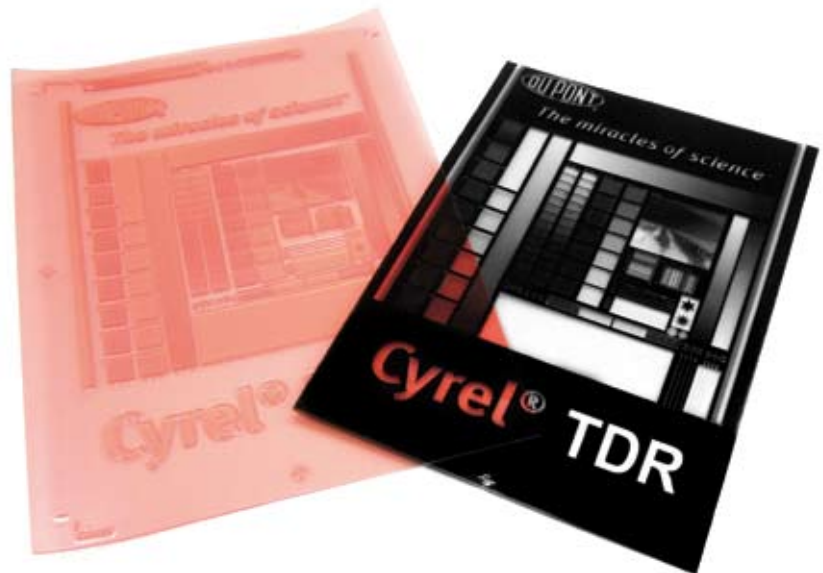
**Cyrel® TDR with its tailored characteristics combines low dot gain and strong solids on any corrugated substrate. It shows least wash boarding effects even on B and coarse flutings like C-fluting.**

### Applications

Cyrel® TDR offers easy plate making and trouble free press runs.

It can be used by any printer or trade-shop seeking the best possible printing quality on corrugated substrates as well as other paper substrates printed with water-based inks.

- Corrugated board
- Paper



## DuPont™ Cyrel® TDR

### 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.



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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® 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.

<b>Technical Data</b>			
	<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>
<b>Durometer</b>	38 Sh A	37 Sh A	36 Sh A
<b>Image Reproduction</b>	3 – 95% / 42 L/cm	3 – 95% / 42 L/cm	3 – 95% / 36 L/cm
<b>Minimum positive line width</b>	0.175 mm/ 7 mil	0.175 mm/ 7 mil	0.35 mm/ 14 mil
<b>Minimum isolated dot size</b>	250 µm	250 µm	500 µm
<b>Relief Depth</b>	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

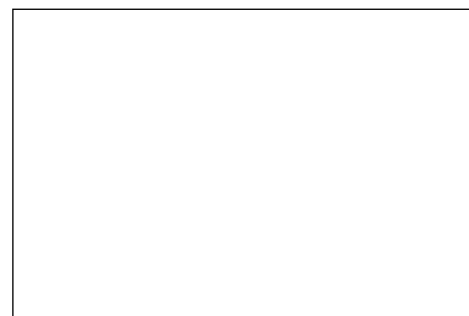
	<b>Cyrel® TDR 170 Thickness 4.32 mm / 0.170 inch</b>	<b>Cyrel® TDR 185 Thickness 4.70 mm/ 0.185 inch</b>	<b>Cyrel® TDR 197 Thickness 5.00 mm/ 0.197 inch</b>
<b>Durometer</b>	35 Sh A	35 Sh A	35 Sh A
<b>Image Reproduction</b>	3 – 95% / 28 L/cm	3 – 95% / 28 L/cm	3 – 95% / 28 L/cm
<b>Minimum positive line width</b>	0.35 mm/ 14 mil	0.35 mm/ 14 mil	0.35 mm/ 14 mil
<b>Minimum isolated dot size</b>	500 µm	500 µm	500 µm
<b>Relief Depth</b>	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>
<b>Durometer</b>	34 Sh A	34 Sh A	33 Sh A
<b>Image Reproduction</b>	3 – 95% / 28 L/cm	3 – 95% / 28 L/cm	3 – 95% / 28 L/cm
<b>Minimum positive line width</b>	0.35 mm/ 14 mil	0.35 mm/ 14 mil	0.35 mm/ 14 mil
<b>Minimum isolated dot size</b>	500 µm	500 µm	500 µm
<b>Relief Depth</b>	2.5 mm / 0.098 inch	2.5 mm / 0.098 inch	2.5 mm / 0.098 inch

*All technical information set out herein is provided free of charge and is based on technical data, which DuPont believes to be reliable. It is intended for use by persons having skill, at their own discretion and risk. The handling precaution information contained herein is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use are outside of our control we make no warranties express or implied in relation thereto and therefore cannot accept any liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe any patents.*

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To learn more, visit [www.packaging-graphics.dupont.com](http://www.packaging-graphics.dupont.com)  
or contact your Cyrel® specialist



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**DuPont Packaging Graphics**  
**“Advancing Flexography”**