

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 ([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.

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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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:

DuPont de Nemours (Deutschland) GmbH

DuPont Electronics & Communications
Hugenottenallee 175
63263 Neu-Isenburg
Deutschland
Tel.: +49 (0) 6102 18 1592

DuPont (U.K.) Limited

DuPont Electronics & Communications
Wedgwood Way, Stevenage
Hertfordshire SG1 4QN
United Kingdom
Tel: +44 (0) 1438 73 4863

www.cyrel.eu

Technical Data			
	Cyrel® TDR 112 Thickness 2.84 mm / 0.112 inch	Cyrel® TDR 125 Thickness 3.18 mm / 0.125 inch	Cyrel® TDR 155 Thickness 3.94 mm / 0.155 inch
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
	Cyrel® TDR 170 Thickness 4.32 mm / 0.170 inch	Cyrel® TDR 185 Thickness 4.70 mm / 0.185 inch	Cyrel® TDR 197 Thickness 5.00 mm / 0.197 inch
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
	Cyrel® TDR 217 Thickness 5.51 mm / 0.217 inch	Cyrel® TDR 237 Thickness 6.02 mm / 0.237 inch	Cyrel® TDR 250 Thickness 6.35 mm / 0.250 inch
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