

DuPont™ Cyrel® TCP

Thermal Flexographic Plate Processor



DuPont™ Cyrel® TCP

[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® TCP is the robust plate for printing line work & solids on any corrugated board substrate.

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Applications

Cyrel® TCP 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 plate making latitude – no masking necessary
- Shore hardness adapted to use with different board flutings

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Printing ink and solvent compatibility

Cyrel® TCP 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 (432° C), away from direct sources of heat. Humidity control is not required. Cyrel® TCP 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® TCP plates should be handled under UV free light; e.g. fluorescent tubes covered with amber sleeves.



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High Durometer Digital Plate

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® TCP 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® TCP 125 Thickness 3.18 mm/ 0.125 inch	Cyrel® TCP 155 Thickness 3.94 mm/ 0.155 inch	Cyrel® TCP 170 Thickness 4.32 mm – 0.170 inch	Cyrel® TCP 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® TCP 197 Thickness 5.00 mm/ 0.197 inch	Cyrel® TCP 217 Thickness 5.51 mm/ 0.217 inch	Cyrel® TCP 237 Thickness 6.02 mm/ 0.237 inch	Cyrel® TCP 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:

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

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

www.cyrel.eu