DUPONT®

Cyrel® TDR flexographic plate

The plate for high quality corrugated board printing.

DuPont Cyrel® TDR flexographic plates

Cyrel® TDR is a low durometer, deep-relief photopolymer flexographic printing plate for high quality corrugated board printing.

Product Features

- Outstanding exposure latitude—no masking.
- Gives consistent print quality over a wide range of ink pH conditions.
- Improved daylight and ozone resistance.
- Uniform thickness and low durometer (33–35° Shore A) assures excellent print quality.
- Deep-relief image produces clean and sharp printing results with fewer press washups.
- Dimensionally stable polyester support for accurate register.
- Excellent ink transfer provides good printing uniformity.
- Outstanding durability assures long press runs.

Availability

Plate sizes range from 30" × 40" up to 50" × 80" in the following plate thicknesses: .67, .112, .125, .155, .170, .197, .217, .237, and .250 (inches). For additional size, thickness, and availability information, contact your Cyrel® Sales Representative.

Image Reproduction

	125TDR	155 TDR	250 TDR
Halftones	2–90%	2–90%/100LS	2–90%/100LS
Fine Lines	0.010"	0.010"	0.015"
Isolated Dot	0.020"	0.025"	0.040"
Relief Depth	0.050"	0.100"	0.120"

Printing Ink and Solvent Compatibility

Cyrel® TDR is intended for use with water-based inks and has limited application with alcohol-based inks. Use of aggressive solvents is not recommended.

Mounting

A good quality transfer adhesive is recommended for mounting Cyrel® TDR plates, followed by the use of edge sealer or hot melt sealer on carrier sheets. The polyester base ensures complete stability in use—even for the largest 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. Plates should be stacked flat.

Handling—Raw Material

Cyrel® TDR plates should be handled under yellow lighting (gold fluorescent tubes, or white tubes covered with DuPont DP 480 amber sheeting).

Platemaking Procedures

Plates can be processed in either Cyrel® or similar equipment. Plates are processed in the following sequence.

- Expose the plate through the back to establish the floor and maximize sensitivity. Back-exposure time varies according to relief required.
- Remove the protective coversheet and expose the front of the plate through the negative to form the image. Negatives should have a high matte surface for good vacuum contact.
- Mount the plate in the solvent processor to remove the unexposed area.
- Rinse the plate with fresh washout solvent and dry the plate in a plate dryer.
- Light finish the plate to eliminate surface tack.
- Postexpose the dried plate to harden the remaining polymer.

Storage—Finished Plates

After use, plates should be thoroughly cleaned with compatible solution. Plates mounted in the round should be stored in tubes, drums, or suitable containers. Plates mounted flat or plates demounted from carriers can be stored flat. Plates should not be stored in direct sunlight, excessive white light or areas of high ozone concentrations.

Consistent Quality

Cyrel® is the only line of plates in the flexographic market that is manufactured under an ISO-9000 certified quality process. This ensures each plate is manufactured to the same high standard of quality.

Nothing prints like Cyrel® 1-800-345-9999 (prompt 1, 5)

Canada: 1-800-387-2122
Mexico: (5) 722-1248
http://www.dupont.com/cyrel

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