DuPont™ Cyrel® DRC
Economical Analog Printing Plate for the Corrugated Board Industry

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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**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 152.4 cm) and 52 x 80 inches (132.0 x 203.2 cm).

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Durometer</th>
<th>Image Reproduction</th>
<th>Minimum positive line width</th>
<th>Minimum isolated dot size</th>
<th>Relief Depth</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.18 mm/0.125 inch</td>
<td>38 Sh A</td>
<td>3 – 95% / 42 L/cm</td>
<td>0.175 mm/7 mil</td>
<td>250 μm</td>
<td>1.0 – 1.5 mm/0.039 – 0.059 inch</td>
</tr>
<tr>
<td>3.94 mm/0.155 inch</td>
<td>37 Sh A</td>
<td>3 – 95% / 36 L/cm</td>
<td>0.35 mm/14 mil</td>
<td>500 μm</td>
<td>1.5 – 2.0 mm/0.059 – 0.079 inch</td>
</tr>
<tr>
<td>4.32 mm/0.170 inch</td>
<td>36 Sh A</td>
<td>3 – 95% / 28 L/cm</td>
<td>0.35 mm/14 mil</td>
<td>500 μm</td>
<td>1.5 – 2.0 mm/0.059 – 0.079 inch</td>
</tr>
<tr>
<td>4.70 mm/0.185 inch</td>
<td>36 Sh A</td>
<td>3 – 95% / 28 L/cm</td>
<td>0.35 mm/14 mil</td>
<td>500 μm</td>
<td>1.5 – 2.5 mm/0.059 – 0.098 inch</td>
</tr>
<tr>
<td>5.00 mm/0.197 inch</td>
<td>36 Sh A</td>
<td>3 – 95% / 28 L/cm</td>
<td>0.35 mm/14 mil</td>
<td>500 μm</td>
<td>2.5 mm – 0.098 inch</td>
</tr>
<tr>
<td>5.51 mm/0.217 inch</td>
<td>35 Sh A</td>
<td>3 – 95% / 28 L/cm</td>
<td>0.35 mm/14 mil</td>
<td>500 μm</td>
<td>2.5 mm – 0.098 inch</td>
</tr>
<tr>
<td>6.02 mm/0.237 inch</td>
<td>35 Sh A</td>
<td>3 – 95% / 28 L/cm</td>
<td>0.35 mm/14 mil</td>
<td>500 μm</td>
<td>2.5 mm – 0.098 inch</td>
</tr>
<tr>
<td>6.35 mm/0.250 inch</td>
<td>34 Sh A</td>
<td>3 – 95% / 28 L/cm</td>
<td>0.35 mm/14 mil</td>
<td>500 μm</td>
<td>2.5 mm – 0.098 inch</td>
</tr>
</tbody>
</table>

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