

DuPont™ Cyrel® HIQS

HIGH DUROMETER ANALOGUE PRINTING PLATE

DuPont Packaging Graphics

To help our customers gain competitive advantage in the global packaging graphics value chain.

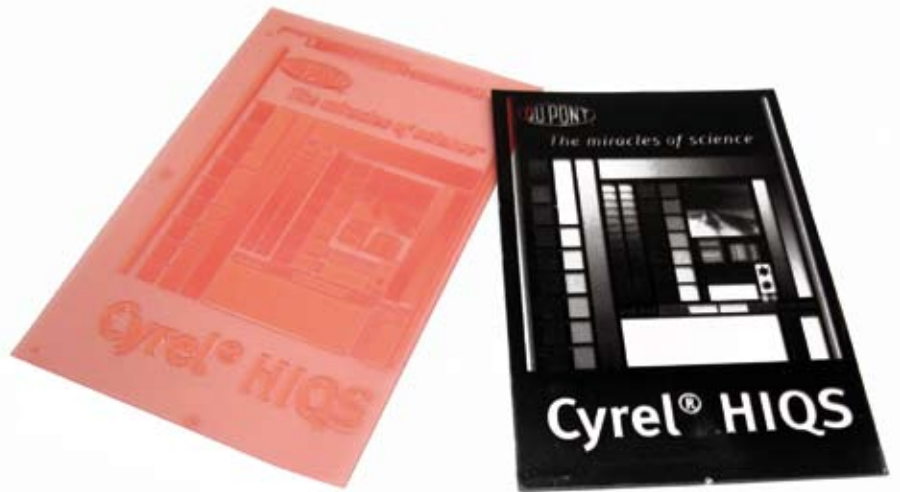
DuPont Packaging Graphics continues to be a global technology leader in supplying flexographic printing systems. Our scientists continue to develop unique solutions based on new technologies to help our customers expand their business by taking advantage of new profitable packaging printing opportunities. 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® HIQS is DuPont's analogue high durometer printing plate for modern high precision presses. Even at the finest screen rulings, it combines the lowest dot gain with high ink transfer for smooth solids. Cyrel® HIQS provides long press-life when printing with flexible film as well as smooth paper surfaces.

Applications

Cyrel® HIQS is ideal for using modern press technology with thin plates and striving for the highest halftone resolution on film and paper.

- Flexible packaging
- Tag & Label
- Folding cartons
- Beverage cartons



DuPont™ Cyrel® HIQS

Product Features

- High resolution – holds dots below 1% in screen rulings of 54 l/cm and finer
- Even under changing conditions such as temperature and humidity, Cyrel® HIQS offers a very consistent plate making performance
- Fits well with plate making techniques like FlexoCal®
- High resistance to ozone and white light results in excellent storage capability
- Prints any printing elements with high fidelity
- Requires minimum impressions settings, leading to long press-life
- Proprietary surface technology prints smooth solids
- Low surface tack makes handling easy

Printing ink and solvent compatibility

Cyrel® HIQS offers excellent compatibility with solvent-based, water-based inks and also with many UV 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.



The miracles of science™

Mounting

Cyrel® Microflex mounting devices are recommended for mounting Cyrel® HIOS plates. The double sided adhesive should first be applied to the cylinder or sleeve – not the plate – to ensure easier and precise laydown. The polyester base will maintain accurate register even with large 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. Cyrel® HIOS 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® HIOS plates should be handled under UV free light; e.g. fluorescent tubes covered with amber sleeves.

Storage – Finished Plates

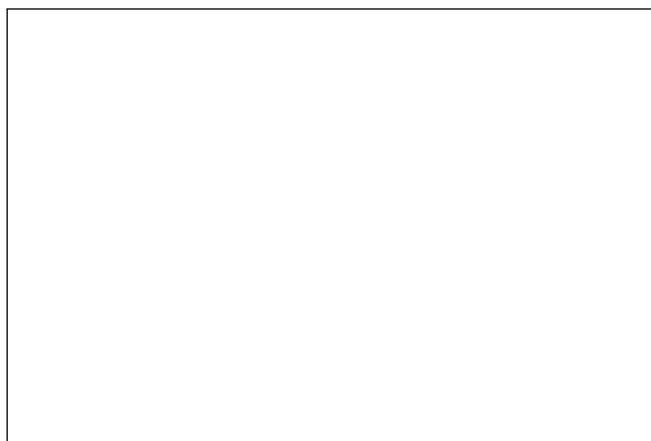
After printing, plates should be thoroughly cleaned with compatible solvent before storing. They may be stored on cylinders, sleeves or demounted and stored flat.

Technical Data			
	Cyrel® HIOS 30 Thickness 0.76 mm/ 0.030 inch	Cyrel® HIOS 45 Thickness 1.14 mm/ 0.045 inch	Cyrel® HIOS 67 Thickness 1.70 mm/ 0.067 inch
Durometer	85 Sh A	76 Sh A	70 Sh A
Image Reproduction	2 – 95% 54 L/cm	2 – 95% 54 L/cm	2 – 95% 54 L/cm
Minimum positive line width	0.10 mm/ 4 mil	0.10 mm/ 4 mil	0.10 mm/ 4 mil
Minimum isolated dot size	200 µm	200 µm	200 µm
Relief Depth	0.60 mm/ 0.024 inch	0.60 mm/ 0.024 inch	0.70 mm/ 0.028 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
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“Advancing Flexography”