

# DuPont™ Cyrel® round Thin

THE ENDLESS DIGITAL PHOTOPOLYMER SLEEVE

## 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 (analog and digital), Cyrel® platemaking equipment, Cyrel® round sleeves, Cyrel® plate mounting systems and the revolutionary Cyrel® FAST thermal system.

**Cyrel® round Thin is a photopolymer sleeve that is ideal for very high quality printing. Combined with a compressible adapter Cyrel® round Thin creates the perfect compromise between low dot gain and solid coverage.**

### Applications

- Flexible packaging
- Labels
- Aluminium Foils
- Shrink Foils
- Folding boxes
- Gift wrapping paper



DuPont™ Cyrel® round Thin

### Product properties

- Endless printing form
- High resolution for both line and half-tone printing
- Excellent ink transfer for combinations of line and halftone printing
- Outstanding thickness uniformity
- High productivity
- Glass fibre basic sleeve with stable dimensions
- Excellent ozone resistance
- Excellent register accuracy

### Printing ink and solvent resistance

Cyrel® round Thin is suitable for use with both alcohol and water-based flexographic printing inks and for UV-hardening printing ink systems.

### Sleeve production

- No back exposure is required
- Imaging is carried out digitally by ablating the LAMS mask on a Cyrel® round sleeve using a suitable laser system
- The main exposure forms the image
- The unexposed photopolymer is removed from the non-image areas using a washing process to create a relief image
- The Thin sleeve is then dried using hot air
- The washing, drying and final treatment processes are carried out automatically in the Cyrel® round inliner processing unit
- A finishing and final exposure is carried out using UV-A and UV-C light



*The miracles of science™*

### Storage of raw materials

Unexposed Cyrel® round sleeves can be stored in the special transport box in a temperature controlled room for up to six months. Temperatures between 4°C and 32°C are recommended. The sleeve has perfect protection for transport and storage.

### Handling raw material

Cyrel® round sleeves should only be handled in light with low UV output. We recommend that you use appropriately filtered lamps and cover the windows with a UV protection foil.

### Storage of processed sleeves

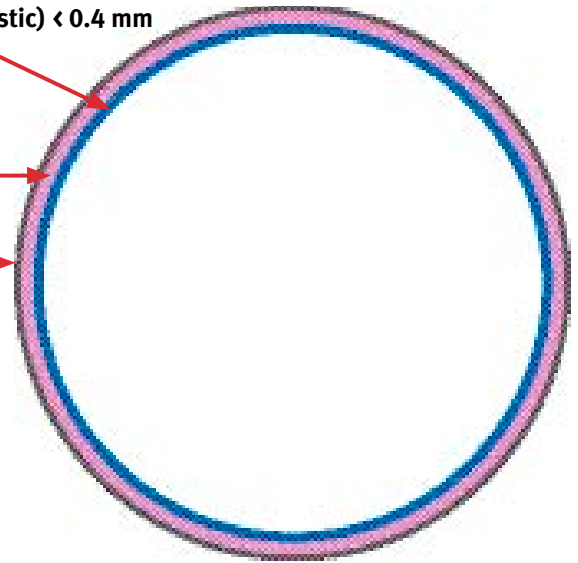
Printed sleeves should be cleaned carefully with a suitable solvent before being placed in storage. Storing them in the special transport box will protect the sleeves from direct sunlight.

## DuPont™ Cyrel® round Thin: Raw continuous polymer sleeves for digital imaging

**Basic sleeve GRP  
(glass fibre-reinforced plastic) < 0.4 mm**

**Photopolymer layer  
≈ 1.24 mm**

**Robust LAMS Layer**



**Requires compressible adapters,  
e.g. Rotec Bridge Light H/C**

General information	Details
Min. circumference	280 mm
Max. circumference	1,200 mm
Max. length	1,750 mm
Structure	Basic sleeve < 0.4 mm Photopolymer ≈ 1.24 mm
Final hardness	75 Sh A
Internal diameter	Stork System
Image reproduction	1 – 98%
Minimum positive line	0.075 mm
Isolated dot	0.125 mm in diameter
Relief depth	0.7 mm +/- 0.1 mm

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**“Advancing Flexography”**