

DuPont™ Cyrel® round Classic

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 Classic is a photopolymer sleeve that is ideal for very high quality printing, particularly on critical materials. In addition Cyrel® round Classic can also be used successfully for halftone printing.

Applications

- Tissue printing
- Gift wrapping paper
- Wallpaper
- Folding boxes
- Flexible packaging

Product properties

- Endless printing form
- High resolution for both line and halftone printing
- Excellent ink transfer for outstanding area printing



- Outstanding thickness uniformity
- High productivity
- Stable basic sleeve
- Excellent ozone resistance
- Excellent register accuracy

Printing ink and solvent resistance

Cyrel® round Classic 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 Classic 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

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

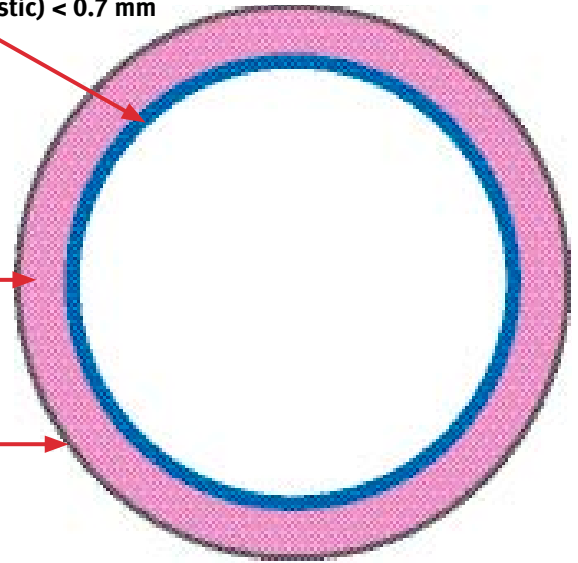
Printed sleeves should be cleaned carefully with a suitable solvent before being placed in storage. Storing them in the special transport box will protect the sleeves from direct sunlight.

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

Basic sleeve GRP
(glass fibre-reinforced plastic) < 0.7 mm

Photopolymer layer
≈ 2.54 mm

Robust LAMS Layer



For use with printing cylinders or adapters

General information	Details
Min. circumference	290 mm
Max. circumference	1,200 mm
Max. length	1,750 mm
Structure	Basic sleeve < 0.7 mm Photopolymer ≈ 2.54 mm
Final hardness	65 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

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.

Du Pont de Nemours (Deutschland) GmbH
DuPont Imaging Technologies
Hugenottenallee 173
63263 Neu-Isenburg
Deutschland
Tel: +49 (0) 6102 18 3324

Du Pont (U.K.) Limited
DuPont Imaging Technologies
Wedgwood Way, Stevenage
Hertfordshire SG1 4QN
United Kingdom
Tel: +44 (0) 1438 734485

To learn more, visit www.packaging-graphics.dupont.com
or contact your Cyrel® specialist



The miracles of science™



www.bciimage.com
866 971-1008

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

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

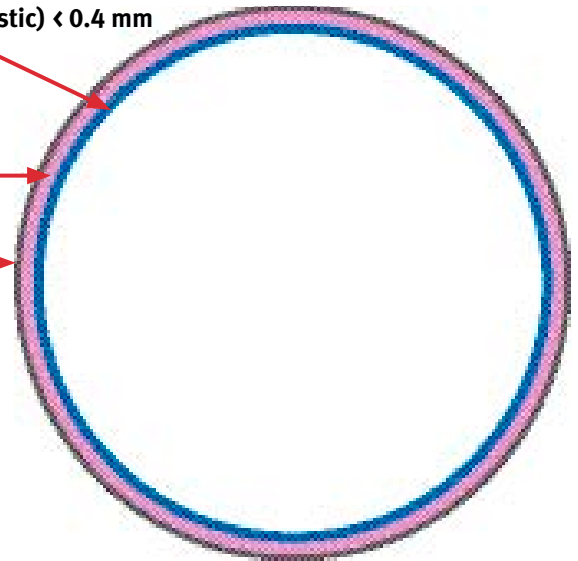
Printed sleeves should be cleaned carefully with a suitable solvent before being placed in storage. Storing them in the special transport box will protect the sleeves from direct sunlight.

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

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.

Du Pont de Nemours (Deutschland) GmbH
DuPont Imaging Technologies
Hugenottenallee 173
63263 Neu-Isenburg
Deutschland
Tel: +49 (0) 6102 18 3324

Du Pont (U.K.) Limited
DuPont Imaging Technologies
Wedgwood Way, Stevenage
Hertfordshire SG1 4QN
United Kingdom
Tel: +44 (0) 1438 734485

To learn more, visit www.packaging-graphics.dupont.com
or contact your Cyrel® specialist



The miracles of science™



www.bciimage.com
866 971-1008

DuPont™ Cyrel® FAST round Classic

THE THERMALLY PROCESSABLE DIGITAL PHOTOPOLYMER SLEEVE

DuPont Packaging Graphics

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

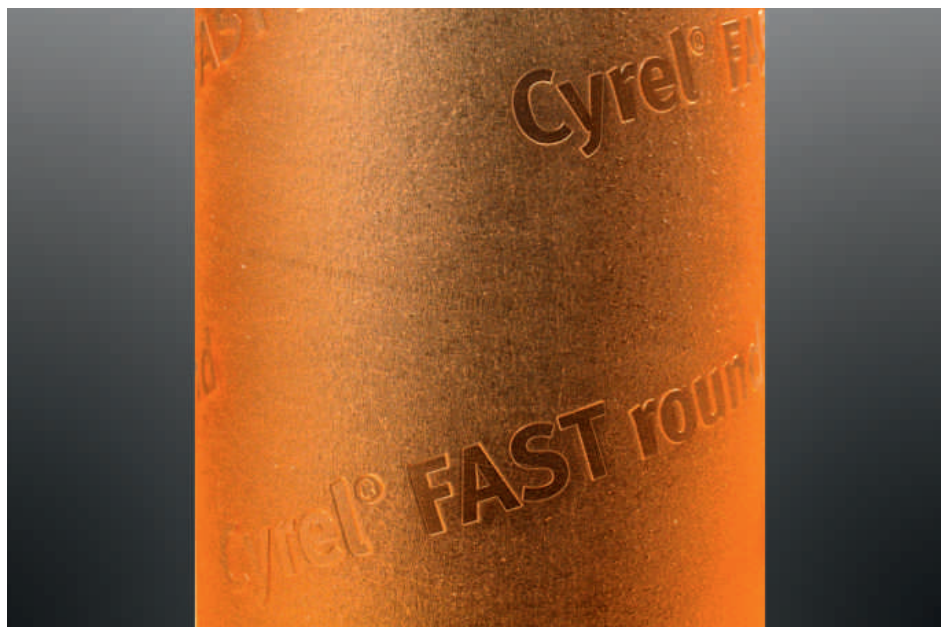
DuPont Packaging Graphics continues to be a global technology leader in supplying flexographic printing systems. Our scientists continue to develop unique solutions based on new technologies to help our customers expand their business by taking advantage of new profitable packaging printing opportunities.

DuPont Packaging Graphics portfolio of products includes Cyrel® brand photopolymer plates (analog and digital), Cyrel® plate-making equipment, Cyrel® round sleeves, Cyrel® plate mounting systems and the revolutionary Cyrel® FAST thermal system.

Cyrel® FAST round Classic is a photopolymer sleeve that is ideal for very high quality printing, particularly on critical substrates. In addition Cyrel® FAST round Classic can also be used successfully for halftone printing.

Applications

- Tissue printing
- Gift wrapping paper
- Wallpaper
- Folding boxes
- Flexible packaging



DuPont™ Cyrel® FAST round Classic

Product properties

- Endless printform
- Thermally processable
- High resolution for linework and halftone printing
- Excellent ink transfer for outstanding solids
- Outstanding thickness uniformity
- High productivity
- Stable base sleeve
- Excellent ozone resistance
- Excellent register accuracy

Printing ink and solvent resistance

Cyrel® FAST round Classic is suitable for use with alcohol and water-based flexographic printing inks and for UV-curing inks.

Sleeve production

- No back exposure is required
- Digital imaging by ablating the LAMS mask on the Cyrel® FAST round sleeve using a suitable laser system
- The main exposure forms the image
- The unexposed photopolymer is removed from the unimaged areas using a thermal development process to create a relief image.
- Finishing and postexposure with UV-C and UV-A light
- Within approximately 35 minutes the sleeve is ready for the press



www.bciimage.com
866 971-1008



The miracles of science™

Storage of raw sleeves

Unexposed Cyrel® FAST 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 transport box enables a perfect protection for transport and storage.

Handling of raw sleeves

Prior to mainexposure Cyrel® FAST round sleeves should be protected from UV-light. We recommend to use filtered lamps and UV-filters on windows.

Storage of processed sleeves

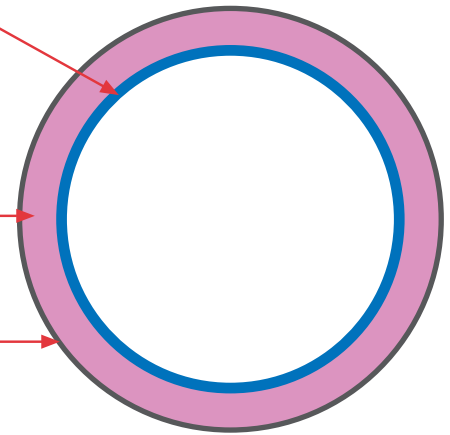
Printed sleeves should be cleaned carefully with a suitable solvent before being placed in storage. Storing them in the special transport box will protect the sleeves from direct sunlight.

DuPont™ Cyrel® FAST round Classic Continuous photopolymer sleeve for digital imaging

**Basesleeve (fibre-material),
thickness < 0.7 mm**

**Photopolymer layer,
thickness 2.49 mm**

Robust LAMS Layer



**To be used in combination with cylinders
and hard or compressible adapters**

General information	Details
Min. circumference	330 mm
Max. circumference	960 mm, larger repeats on request
Max. length	300 – 1,450 mm
Structure	Basic sleeve < 0.7 mm Photopolymer ≈ 2.49 mm
Final hardness	65 Sh A
Internal diameter	According to Stork-system
Image reproduction	1 – 98 %
Minimum positive line	0.075 mm
Isolated dot	0.150 mm in diameter
Relief depth	Approx. 0.7 mm

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.

Du Pont de Nemours (Deutschland) GmbH
DuPont Electronics & Communications
Hugenottenallee 173
63263 Neu-Isenburg
Deutschland
Tel: +49 (0) 6102 18 4400

Du Pont (U.K.) Limited
DuPont Electronics & Communications
Wedgwood Way, Stevenage
Hertfordshire SG1 4QN
United Kingdom
Tel: +44 (0) 1438 734485

To learn more, visit www.cyrel.co.uk
or contact your Cyrel® specialist.



The miracles of science™

DuPont Packaging Graphics
“Advancing Flexography”

DuPont™ Cyrel® FAST round Thin

THE THERMALLY PROCESSABLE 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® plate-making equipment, Cyrel® round sleeves, Cyrel® plate mounting systems and the revolutionary Cyrel® FAST thermal system.

Cyrel® FAST round Thin is a thermal processable photopolymer sleeve that is ideal for very high quality printing. Combined with a compressible adapter Cyrel® FAST round Thin ensures good coverages on solids while maintaining a low dotgain.

Applications

- Flexible packaging
- Labels
- Aluminium Foils
- Shrink Foils
- Folding boxes



Product properties

- Endless printform
- Thermally processable
- High resolution for linework and halftone printing
- Excellent ink transfer for combinations of linework and halftones
- Outstanding thickness uniformity
- High productivity
- Glass fibre basesleeve with stable dimensions
- Excellent ozone resistance
- Excellent register accuracy

Printing ink and solvent resistance

Cyrel® FAST round Thin is suitable for use with alcohol and water-based flexographic printing inks and for UV-curing inks.

Sleeve production

- No back exposure is required
- Digital imaging by ablating the LAMS mask on the Cyrel® FAST round sleeve using a suitable laser system
- The main exposure forms the image
- The unexposed photopolymer is removed from the unimaged areas by a thermal development process to create a relief image within 10-15 minutes
- Finishing and post-exposure with UV-C and UV-A light
- Within approximately 35 minutes the sleeve is ready for the press



Storage of raw sleeves

Unexposed Cyrel® FAST 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 transport box enables a perfect protection for transport and storage.

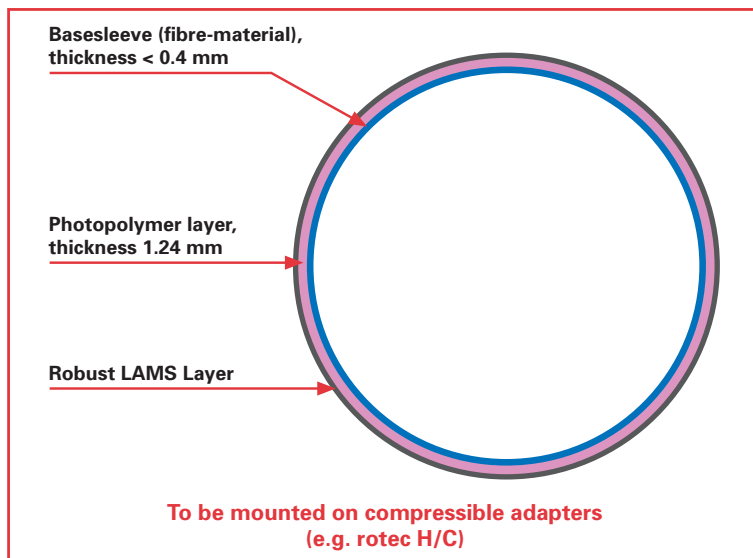
Handling of raw sleeves

Prior to mainexposure Cyrel® FAST round sleeves should be protected from UV-light. We recommend to use filtered lamps and UV-filters on window.

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® FAST round Thin Continuous photopolymer sleeve for digital imaging



General information	Details
Min. circumference	320 mm
Max. circumference	820 mm, larger repeats on request
Length	300 – 1.450 mm
Structure	Basic sleeve < 0.4 mm Photopolymer 1.24 mm
Final hardness	75 Sh A
Internal diameter	Accroding to Stork-system
Image reproduction	1 – 98 % at 157 lpi (62 L/cm)
Minimum positive line	0.075 mm
Isolated dot	0.125 mm in diameter
Relief depth	Approx. 0.55 mm

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.

Du Pont de Nemours (Deutschland) GmbH
DuPont Electronics & Communications
Hugenottenallee 173
63263 Neu-Isenburg
Deutschland
Tel: +49 (0) 6102 18 4400

Du Pont (U.K.) Limited
DuPont Electronics & Communications
Wedgwood Way, Stevenage
Hertfordshire SG1 4QN
United Kingdom
Tel: +44 (0) 1438 734485

To learn more, visit www.cyrel.co.uk
or contact your Cyrel® specialist.



The miracles of science™

DuPont Packaging Graphics
“Advancing Flexography”