Window Fashion Fabrics

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Basics

- Window fashion covers a wide range of fabrics, used for curtains, drapes, vertical or roller blinds, blackout fabrics, or even for stage decoration.
- The fabric may be of woven, flat knit or lace construction
- It may be made from cellulose or artificial fibers.
- The fabric surface may be flat or structured jacquard, fiber flocked or velour.
- The fabric weight range starts at 30 to 40 g/m² and reaches up to 350 g/m² or even higher.

Printing Methods



- Fabrics are either printed in cross or in longitudinal direction. The printing machines must be selected accordingly.
- Cross-printed fabrics are covered by the 2,200 mm COLARIS.

PRINTER model.

Longitudinal printed fabrics need a 3,400 mm COLARIS.

PRINTER, because the product usually needs to cover the full room height.

- As mostly bright and strong colors and a big color gamut are required, an 8color setup is mostly preferred. However, a 4-color setup could double the capacity and would therefore economize the printing process.
- Cellulose and Protein Fiber based fabrics are suitable for printing.
- Cellulose based fabrics can be printed with Reactive or VAT dye inks.
- PA (Nylon) and Protein Fiber based fabrics are mostly printed with Acid dye inks
- Pigment inks may be used on fabrics made from any fiber or yarn blend.
- Reactive prints are known for brilliant and bright print results with good washing fastness, but have a limited light fastness, especially with red shades.
- Acid dye prints are very bright, but have limited light fastness properties.
 Chlorine fastness is poor.
- VAT dye inks have excellent light and wash fastness properties, incl. chlorine bleach and dry cleaning. For real high-end fabrics, VAT dye inks are the best solution.
- Pigment inks are good for high light fastness, but have poor haptics and a low resistance against dry and wet rubbing.
- On PES and PES Microfiber fabrics, PES flock or sued fabrics, direct disperse and direct sublimation inks are used.
- PES inks give strong colors and have excellent light, rub and wash fastness properties.

Printing Process



Reactive printing

- Inline inkjet pre-treatment applied by the CHROMOJET digital pre-coating unit
- Design printing with COLARIS, using Reactive dye inks
- Offline ink fixation through steaming process
- Post-print washing to clean the fabric from unfixed dyes and pre-treatment chemicals
- · Final fabric finishing according to the customer's needs

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Zimmer

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Option: Inline fixation of inks by a wet-in-wet process right after printing, thus saving energy and reducing the handling process

VAT dye printing

- Inline inkjet pre-treatment applied by the CHROMOJET digital pre-coating unit
- Design printing with COLARIS, using VAT dye inks
- Inline fixation for about 40 seconds by steaming process
- Inline post-print neutralization and washing off unfixed dyes and pre-treatment chemicals
- Final fabric finishing according to the customer's needs

Pigment printing

- Inkjet pre-treatment of fabric
- Design printing with COLARIS and inline drying
- Improving rub fastness by applying a fixing agent, followed by a polymerization process
- · Final fabric finishing according to the customer's needs

Option: Mechanical finishing to improve the haptics of the fabric

Disperse and direct sublimation dye printing

- · Inkjet pre-treatment of the fabric
- Design printing with COLARIS, using direct disperse or direct sublimation inks
- · Post-print drying inline right after printing.
- HT steam fixation in a loop steamer for 8 to 10 minutes
- · Reductive washing and vacuum extraction for high light and rubbing fastness

Option: Inline inkjet pre-treatment applied by the CHROMOJET digital pre-coating unit

Option: SUPRAPRESS penetration support Option: Inline fixation for about 4 minutes

Printing Machines

Our COLARIS

TEXTILE PRINTER with FUJIFILM Dimatix StarFire™ print heads is the best solution for high-volume print production.

- As most of the fabric is heavy or even of voluminous structure, the use of print heads with a bigger droplet size (i.e the StarFire™ SG1024 MA) can deliver the required ink amount for a good penetration - required to avoid grinning of white at the seams
- The ReadyJet™ ink circulation system guarantees sufficient ink availability under any working condition.
- Ink circulation prevents the sedimentation of solid ink particles. This is especially important when printing with VAT dye or Pigment inks.
- The COLARIS

PRINTER concept allows a flexible layout according to the requirements of various ink dye classes.

Our open ink system allows to select among various ink manufacturers available in the market.

Get more information in our PDF's:

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