

## Needlefelt

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## Basics



- Needlefelt carpets are normally made of Polyester or Polypropylene
- High-quality products for the contract market have a surface out of polyamide monofilament fibres
- The surface is either flat or shows a rip structure
- For printing, polyester is widely used
- Polypropylene can not be printed
- Only plastisols or pigments would be possible - but with inferior rub fastness

## Applications

- Needlefelt carpets in the shape of endless carpet are used for exhibition carpets, events, weddings.
- Needlefelt products in the shape of mats are used for the promotion industry, but also as a cheap and colorful product for residential use and as children play mats.

## Printing Methods

- Needlefelt can be printed either with **CHROMOJET** or with **COLARIS** technology
- Printing lines may have a width of 2,200, 3,200, 4,200 or 5,200 mm
- Our recommendation concerning dyes or inks are high-energy disperse types, because they provide good coverage, sharp definition and excellent fastness



### CHROMOJET . PRINTER

#### | Process color printing

- **CHROMOJET** in combination with **SUPRAPRESS** is recommended for structured and ripped constructions

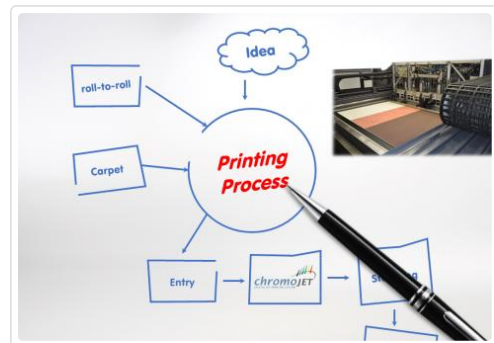


### COLARIS . CARPET PRINTER

#### | Inkjet printing

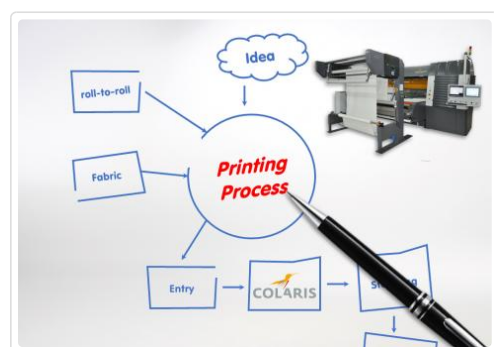
- **COLARIS . CARPET PRINTER** is recommended for flat fabrics

## Printing Process



### CHROMOJET for processing roll-to-roll carpets of 2,200, 3,200 or 4,200 mm width

- Entry with unrolling, accumulator, center guiding
- Spot printing with **CHROMOJET**, equipped with up to 16 colors
- Minimizing dye pick-up by using **SUPRAPRESS**
- Drying on a conveyor belt or in a stenter
- High-temperature fixation at about 180°C / 356°F for about 2 minutes in a stenter, using infrared radiation or hot air or overheated steam
- Washing and vacuum extraction
- Drying
- Winding



### COLARIS for processing roll-to-roll carpets of 2,200, 3,200, 4,200 or 5,200 mm width

- Entry with unrolling, accumulator, pre-steaming, center guiding
- Inkjet printing with **COLARIS** .
- CARPET PRINTER, using 4 or 6 colors
- Drying on a conveyor belt or in a stenter
- High-temperature fixation at about 180°C / 356°F for about 2 minutes in a stenter, using infrared radiation or hot air or overheated steam
- Washing and vacuum extraction
- Drying
- Winding

## Technical Data

### Printing Machines

	CHROMOJET <sup>800</sup>	COLARIS
Technology	valve jets, with 50 or 76 dpi	inkjet with 400x400 up to 400x1600 dpi
Printing on roll-to-roll	2,200, 3,200 or 4,200 mm width	2,200, 3,200, 4,200 or 5,200 mm width
Penetration	<ul style="list-style-type: none"> <li>• Excellent / full</li> <li>• Also on extremely ripped constructions</li> </ul>	<ul style="list-style-type: none"> <li>• Good on flat products</li> <li>• Moderate on structured needlefelt constructions</li> </ul>
Speed	up to 4 m/min	up to 4 m/min
Dye and Ink	disperse dyes	disperse or direct sublimation inks
Number of basic colors	up to 16 spot or process colors or any combination	6 process colors
Recommendation	For structured needlefelt products where good penetration is needed	For flat and low-pile products

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