Basics

- Polar and Coral fleece blankets are made out of 100% Polyester, with a fabric weight from 150 to 350 g/m^2.
- These products are also sold under names like Baby blanket, Polar or Coral throws, Throw blankets, Picnic blankets, ...
- Fleece products can be printed using screen printing, or with **COLARIS**. TEXTILE inkjet technology in combination with **CHROMOJET** digital pre-coating and SUPRA**PRESS** penetration unit.
- **COLARIS**.TEXTILE inkjet technology gives highest productivity, flexibility and best penetration at an unlimited number of colors and shades.

Printing Technology

- Polar and Coral fleece blankets are usually printed on endless fabric, using either rotary screen printing, flat screen printing or **COLARIS**.TEXTILE inkjet printing.

RotaSCREEN printing

- Fast printing speed of up to 25 m/min
- Limited repeat
- Limited number of colors
- Contact printing method

MagnoPRINT flat screen printing

- Printing speed of about 10 m/min
- Limited repeat
- Limited number of colors
- Contact printing method
- An individual screen is required for every single color / design

COLARIS.TEXTILE PRINTER

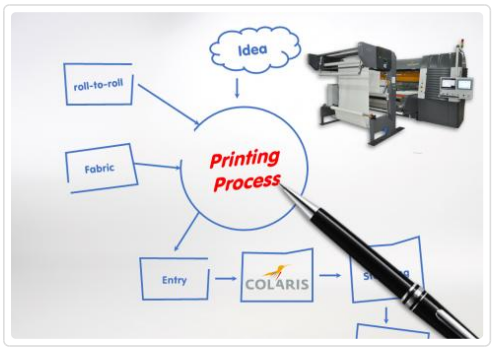
| Inkjet printing

- Very efficient, printing speed up to 9 m/min
- No limitation in repeat and number of colors
- Good penetration in combination with SUPRA**PRESS**penetration system

COLARIS inkjet technology is the new way of printing fleece products.

COLARIS.PRINTERSare available in 1,800 mm and 2,600 mm printing width, to fit any market demand.

Printing Process



COLARIS inkjet printing process

The polar fleece must be free of spin oils and prepared for printing. Main processing steps:

- Entry with J-box accumulator, optional lint cleaning, center guiding with a spreading roller
- Pre-coating with thickener to increase penetration and to prevent the ink from migrating
- Design printing with **COLARIS**.TEXTILE PRINTER, with 4 or 6 disperse inks
- Penetration enhancement with SUPRA**PRESS**
- Drying at about 120°C / 248°F

Consecutive offline processing steps:

- High-temperature steaming or drying at 180°C / 356°F for about 2 minutes to fix the dye
- Reductive washing
- Drying followed by offline brushing and finishing

The dye may optionally be fixed directly after printing, using a high-temperature dryer.

Printing line

COLARIS.TEXTILE PRINTER

| Inkjet Printing on Polyester fleece

- Feeding: entry section with unrolling, J-Box, center guiding
- Precoating: digital or by screen printing
- Design printing with **COLARIS**.TEXTILE PRINTER, with StarFireTM SG1024 MA printheads, 4 - 6 colors and 2,600 or 3,200 mm working width
- Drying or direct high-temperature fixation with **ZIMMER's ThermoCURE** flow-through dryer
- Typical printing speed is about 5 m/min

Get more information from our PDF leaflets: