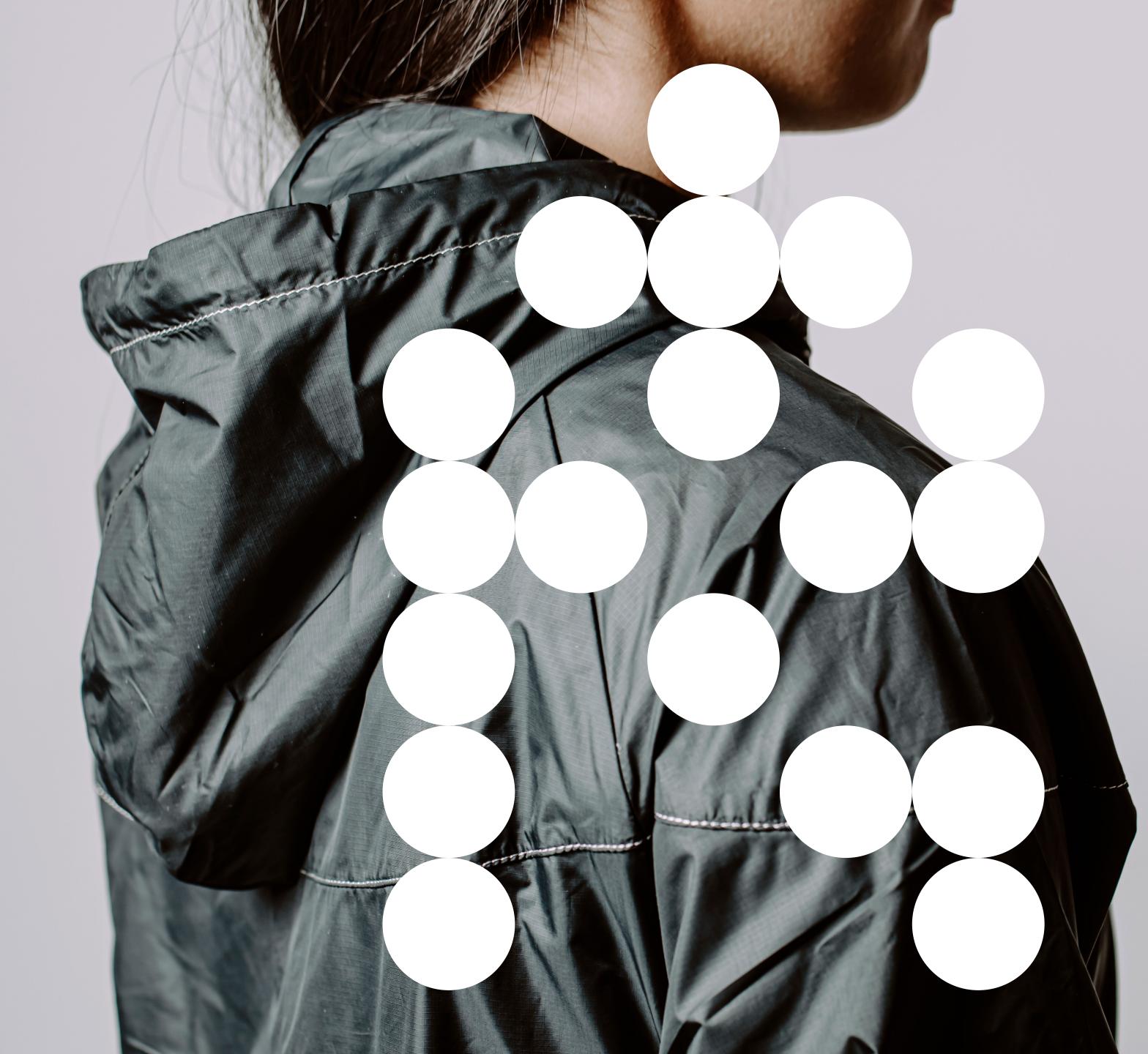
Smart Stitch™

Products Overview





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Innovative threads and disassembly for truly sustainable fashion.

Resortecs enables high-quality textile recycling on an industrial scale thanks to automatic garment disassembly.

Welcome to sustainability's next level: circularity

Garments stitched with Smart Stitch™, our heatdissolvable stitching threads, can be disassembled on an industrial scale thanks to Smart Disassembly™, our low-emissions thermal disassembly systems. Combined, both innovations make it possible to recover up to 90% of clothing's fabric.



Smart Stitch™, full recyclability from day 1

Smart Stitch™ can be bio-based or synthetic with melting points at 150°C*, 170°C, or 190°C

- Suitable for a variety of applications, from apparel to workwear.
- Exhaustively tested on various production line configurations.
- Compatible with every stitching machine widely available in the market.
- Different colors and tenacities, full creativity in design and high quality in manufacturing.

Recycling made

Smart Stitch™ 190°C

Smart Stitch 190°C is a polyamide thread made from bio-sourced, continuous filament polyamide. It has been specifically designed for garments and materials that require high-temperature resistance (e.g. denim or workwear).

This heat-dissolvable stitching thread allows easy disassembly and efficient recycling. With this thread, garments become inherently designed for disassembly without creative nor quality trade-offs.

Tex range: from 16 to 120

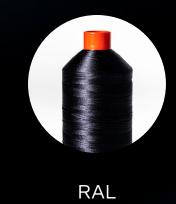
Ticket range: from 200 to 35

Available colours









Smart Stitch™ 190°C

Main uses

- Denim and trousers
- Workwear and uniforms
- Casual fashion/apparel
- Blouses, shirts and polos
- Jackets and dress slacks

Thermal properties

Melts at 190°C, softens at 187°C (ISO 11357-1)

Disassembly temperature > 190°C (recommended 210°C)

Minimum order quantity

- 350 bobbins for colors available in stock (~60 kg)
- 1,500 bobbins per product with specific, on-demand colors (~250 kg)



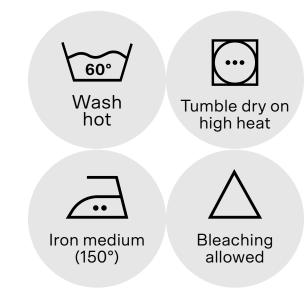


Sustainability score

LCA: 5.30 kg CO₂/kg thread (based on externally reviewed LCA)

50% smaller carbon footprint compared to PET equivalent

Additional information



Smart StitchTM 170°C

Smart Stitch 170°C is a polyolefin thread made from continuous filament polyolefin. It has been specifically designed for accessories, footwear and outerwear.

This heat-dissolvable stitching thread allows easy disassembly and efficient recycling. With this thread, garments become inherently designed for circularity without creative nor quality trade-offs.

Tex range: from 30 to 280

Ticket range: from 100 to 10

Available colours





Smart Stitch™ 170°C

Main uses

- Footwear
- Outerwear
- Mattresses
- Bags, suitcases and other accessories

Thermal properties

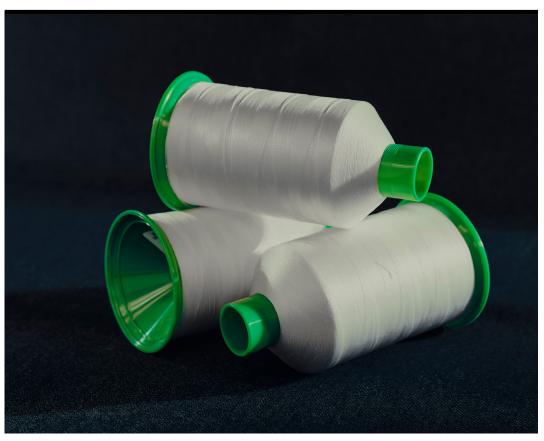
Melts at 170°C, softens at 150°C (ISO 11357-1)

Disassembly temperature > 170°C (recommended 190°C)

Minimum order quantity

- 350 bobbins per product in colors available in stock (~60 kg)
- 1,500 bobbins per product with specific, on-demand colors (~250 kg)





Sustainability score

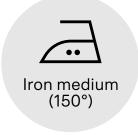
LCA data for particular type of thread nature and thickness can be provided upon request

- 58% smaller carbon footprint compared to PET equivalent
- Custom tailored full LCA for potential product can be provided as additional service

Additional information







Questions? Contact us

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