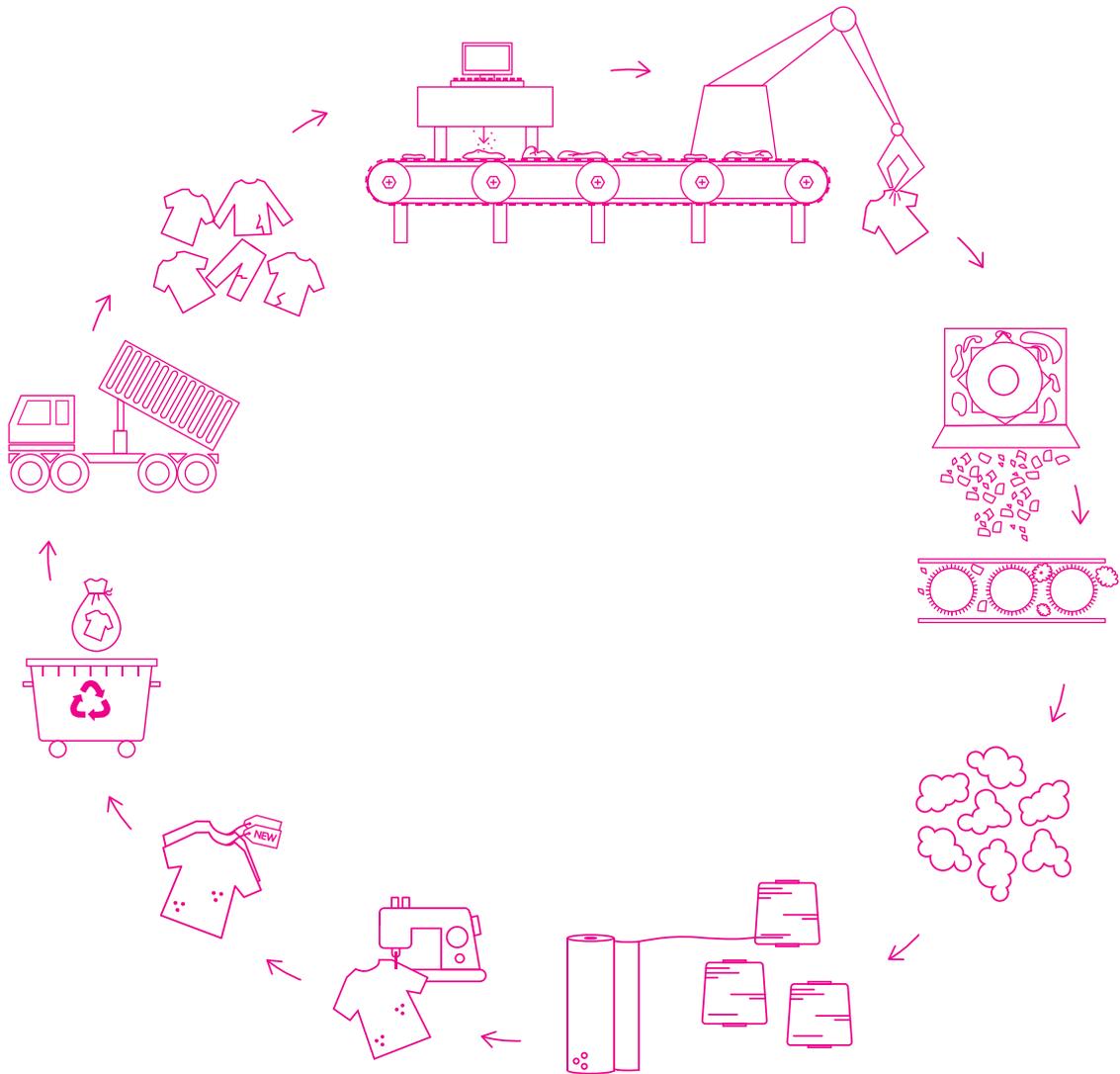


MATERIAL CATALOGUE



 **New Retex**
Textile Sorting and Recycling

NEWRETEX.COM

WE HAVE FIVE TYPES OF MATERIAL FOR SALE



1 REUSABLE TEXTILES

Reusable garments, shoes, home textiles, and accessories.

2 SORTED POST-CONSUMER TEXTILES

Recyclable post-consumer textiles sorted by material composition, colour and type.

3 POST-CONSUMER FIBERS

Recycled fibers for re-spinning. Available with GRS certification.

4 YARNS MADE WITH POST-CONSUMER FIBERS

NewRetex yarns are crafted from a balanced blend of post-consumer textile waste, pre-consumer materials, and virgin fibers. Our yarns are available with GRS.

5

OPEN-LOOP RECYCLING

Looking for feedstock?
We can deliver pre-processed textiles such as shredded textiles with or without hard parts for chemical recycling or open fibers for non-woven processes.

All of our materials originate from European post-consumer waste textiles where:



70%

is municipality collected post-consumer waste textiles



20%

is post-consumer textile waste from industrial laundries, e.g. uniforms and workwear



10%

is post-consumer textiles from take-back solutions collected by brands and retailers

REUSABLE TEXTILES

At NewRetex, we only pick out the items with the best possible condition for our reusable fractions, i.e. the premium grade and grade one. We do this to ensure the highest chance of resale and to minimize the amount of low-grade textiles being exported outside Europe.

PREMIUM GRADE

All items look pristine and as new, some still with original hang-tags.

GRADE ONE CONDITION

All items are clean, and dry with no moisture, smell, stains or discolorings. No holes, broken zippers, pilling or missing buttons.

We are currently sorting into the following reusable fractions:



GARMENTS

T-shirts, shirts, sweaters, dresses, jeans, trousers, shorts, vests, jackets, scarfs, sportswear, unused underwear, etc.



SHOES

Paired shoes in premium and grade one condition.



HOUSEHOLD TEXTILES

Towels, bedsheets, duvet covers, sheets, pillowcases, etc.



ACCESSORIES

Bags, belts, handbags, toys, teddy bears, caps, hats, etc.



DOWN AND FEATHERS

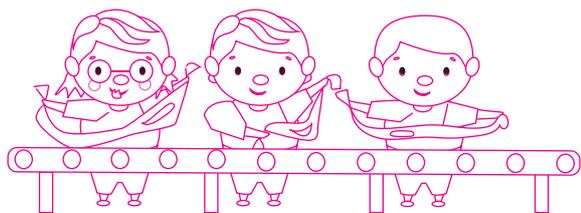
Duvets, pillows and jackets with down and feathers.



SORTED POST-CONSUMER TEXTILE SPECIFICATION



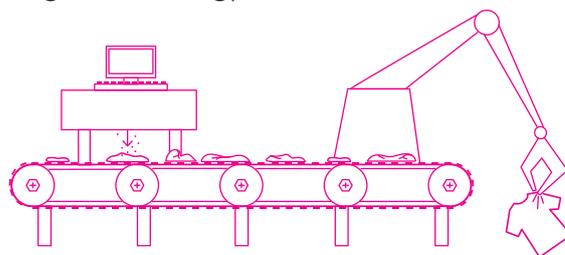
The incoming post-consumer textile waste is sorted in two steps, manual pre-sorting followed by our automatic sorting line using AI technology.



MANUAL PRE SORTING

In the manual pre-sorting, the following is removed:

- Reusable textiles
- Non-recyclable textiles
 - Dirty, moldy or wet textiles.
 - Multi-layer textiles.
 - Textiles smaller than 20x20cm.
 - Textiles with lurex, sequins or rhinestones.
- Non-textile items
 - Packaging, cardboard and other waste fractions.



AUTOMATIC SORTING

In the automatic sorting, the pre-sorted textiles are sorted out according to:

- Material composition.
- Color and textile type.

Our sorting line can sort out 31 different fractions at any time, but the sorting recipe changes over time depending on market demands.

We offer a variety of sorted fractions, combining material composition requirements with color sorting rules. We can combine our sorting rules however needed to accommodate the sorting needs for your feedstock, and we can supply samples for test and validation.



MATERIAL COMPOSITION OF SORTED FRACTIONS

We sort garments based on their composition, achieving a high level of purity in each fraction. We sort out: pure cotton, cotton with elastane, cotton polyester blends, pure polyester, nylon, viscose, acrylic, wool and silk. A material composition can be made in any color.

TRACEABILITY

The sorted fractions are fully traceable throughout the production chain from input textile waste material until finished baled material. Data can be provided for each sold bale, detailing the origins of the material within that bale. The traceability system is ready for the Digital Product Passport.

PACKING

All sorted fractions are baled and packed on EURO pallets, wrapped in film. Each bale contains approximately 250-350 kg with two bales stacked on a pallet. Each pallet is clearly labelled with the article reference number, quality, lot number and traceability GRS number.

POST-CONSUMER SPINNABLE FIBER

ORIGIN OF FIBER

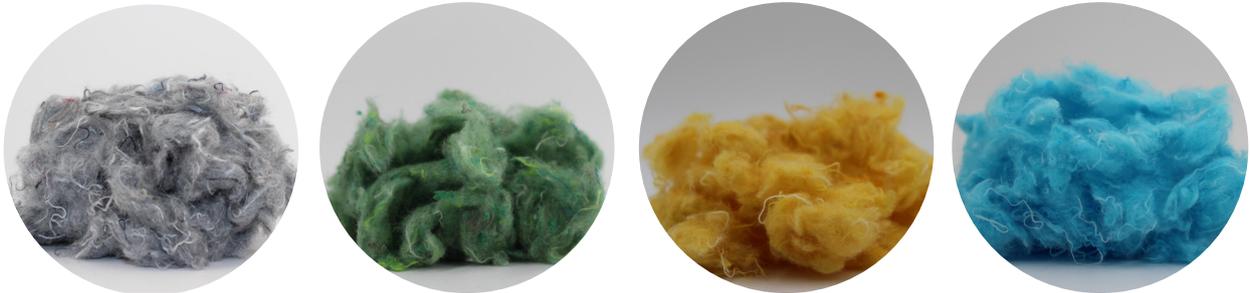
Our spinnable fibers are produced in Europe from post-consumer garments, sorted by color and material composition.

THE COLOURS

We produce a variety of color-sorted fibers, and we can customize our colors to your needs. We have had great success producing yarns and fabrics with high color accuracy from our post-consumer fibers, without any dyeing. However, our fibers can be dyed if needed.

FIBER QUALITY

Our spinnable fibers have been tested in spinning processes and can be mixed with pre-consumer recycled fibers or virgin fibers to create yarns meeting industry standards. Our post-consumer spinnable fibers are high quality, with a mean fiber length of 17-22 mm. We sort garments based on their composition, color, and more, achieving a high level of purity in each fraction, and we test our fibers to document their contents.



NO CHEMICALS FOUND

Post-consumer garments have undergone multiple washes before entering the circular process to become recycled spinnable fibers. And with every wash, the risk of toxic chemicals in the textiles is reduced. Additionally, EU law mandates that garments entering the EU comply with REACH standards- our spinnable fibers meet these requirements. Furthermore, we conduct testing to confirm AFIRM RSL guidelines are met, on a regular basis.

PACKING

All fibers are baled and wrapped in film. Each bale contains 100-300kg, depending on type. Please contact us for smaller volumes. Each pallet is clearly labelled with the article number, lot number, and traceability GRS number.

POST CONSUMER YARNS



NewRetex has produced a wide variety of yarns with our recycled fibers, most of which are not dyed. The material compositions include: cotton, cotton/polyester blends, and wool blends, in a variety of colors.

Our yarns are developed to the specifications of the customer. The yarns can be made from a mixture of post-consumer recycled, pre-consumer recycled, and virgin fibers to achieve up to 100% recycled content. If the recycled yarns or fabrics are not dyed afterwards, their production involves no additional use of water or chemicals.

NewRetex has also developed knitted and woven fabrics from our yarns, which have been successfully tested against industry quality standards. As for the yarns, fabrics are developed on a project basis.

CONTACT INFORMATION

If you are interested in our products, please reach out to receive our updated catalogue for a complete list of qualities, compositions and color variants.



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OUR MISSION

IS TO INCREASE THE RECYCLING OF TEXTILES WITH
AUTOMATIC AND TRACEABLE SORTING TECHNOLOGIES



 **New Retex**
Textile Sorting and Recycling

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