LENZING™ ECOVERO™ – take less, give more

LENZING™ ECOVERO™ fibers are cellulosic fibers derived from the **natural raw material wood**. Naturally lightweight, LENZING™ ECOVERO™ fibers give woven and knitted fabrics a **tactile softness and flowing drape**.

The production processes of our fibers are continuously refined to maximize resource efficiency and minimize environmental impact. Consequently, **carbon emissions and water consumption** from LENZING™ ECOVERO™ fiber production are **at least 50% lower compared to generic viscose fibers**, according to Higg MSI.[1]

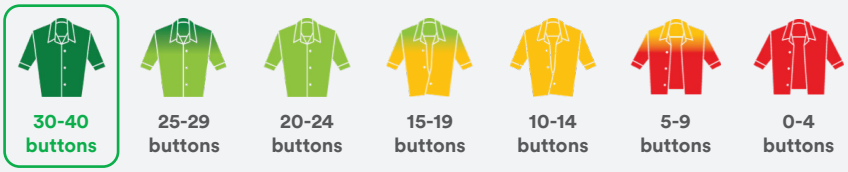
Dedicated to responsible sourcing

LENZING™ ECOVERO™ fibers are made from wood, a natural and renewable raw material carefully sourced from responsibly managed forests. Lenzing's fibers are made from dissolving wood pulp which is produced from various wood species (e.g. beech, spruce, eucalyptus, birch, maple, southern pine and acacia). The wood taken from nature is **purposefully balanced with forest rates**, to ensure the continued availability of this valuable resource.

The wood used as raw material for all LENZING™ ECOVERO™ fibers is sourced from **certified or controlled origins meeting FSC© or PEFC standards**[2], following the stringent guidelines of the Lenzing Wood and Pulp Policy.

Lenzing also promotes conservation solutions to protect ancient and endangered forests. In 2017, Lenzing was the first cellulose fiber producer to complete the verification audit of the CanopyStyle Initiative. In 2024, Lenzing improved its score from 32 to 33 out of 40, placing it in the "Leading in CanopyStyle commitments" category, denoted by a dark green shirt.[3] This status reflects Lenzing's strong leadership in sustainable practices and alignment with the highest environmental standards.

CanopyStyle Info Box



The CanopyStyle Initiative is led by environmental not-for-profit Canopy, which is working to protect the world's ancient and endangered forests. This initiative collaborates with brands to implement sourcing policies that ensure ancient and endangered forests do not end up in textiles. CanopyStyle includes 500+ brand partners committed to forest conservation.

EU Ecolabel certification for environmental excellence

EU Ecolabel
www.ecolabel.eu
EU Ecolabel : AT/016/001

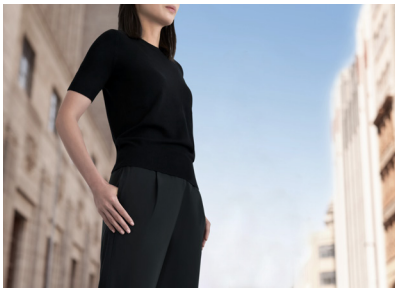
LENZING™ ECOVERO™ fibers are **certified with the widely recognized EU Ecolabel** for textile products.[4] This label is awarded to products that **meet high environmental standards**. Key criteria for evaluation include production processes limiting the usage of substances harmful to human health or the environment, and minimizing key environmental impacts across multiple stages of the product life cycle.

[1] Results based on LCA standards (ISO 14040/44) and available via Higg MSI Version 3.9.1 (December 2024)
[2] FSC© (FSC-C041246) or PEFC (PEFC/06-33-92) certification.
[3] Canopy Hot Button Report (https://hotbutton.canopyplanet.org/company/lenzing/)
[4] EU Ecolabel for textile products (license no. AT/016/001)

LENZING™ ECOVERO™ black fibers

LENZING™ ECOVERO™ fibers are also available in black, offering you the benefit of **high color fastness** while giving you the opportunity to make a positive contribution to the environment.

LENZING™ ECOVERO™ black fibers are produced in a special **spin-dyeing process** in which black color pigments are **directly incorporated in the fibers**. This approach eliminates the need for additional downstream dyeing steps, resulting in **up to 50% less energy and water consumption**, while achieving **up to a 60% reduction in carbon footprint** compared to conventional dyeing.[5]



Contributing to circularity

LENZING™ ECOVERO™ fibers produced with REFIBRA™ technology **use textile waste as a raw material**, in addition to wood. The fibers contain a minimum of **20% recycled material**, which is sourced from **pre- and post-consumer waste**.

These textile scraps could have otherwise entered landfills or been incinerated. LENZING™ ECOVERO™ fibers produced with REFIBRA™ technology also **meet the Recycled Claim Standard**.

RECYCLED BLENDED claim standard ©TextileExchange
CU1260548

LENZING™ ECOVERO™ x REFIBRA™ fibers contain a minimum of 20% RCS Certified Recycled Content. Certified by Control Union Shanghai (CU1260548).

Products certified to the Recycled Claim Standard (RCS) contain recycled content that has been independently verified at each stage of the supply chain, from the source to the finished product.

Application areas

LENZING™ ECOVERO™ fibers are versatile, as they can be **blended with a wide range of textile fibers**, such as cotton, polyester, wool, silk, linen, acrylic, and polyamide, supporting the allure and versatility of all.

LENZING™ ECOVERO™ fibers have a wide range of application areas:

- Tops
- Bottoms
- Dresses
- Loungewear /Hosiery
- Denim

[5] Results based on Terinte et al., 2014: Terinte, N., Manda, B.M.K., Taylor, J., Schuster, K.C., and Patel, M. (2014). Environmental assessment of coloured fabrics and opportunities for value creation: spin-dyeing versus conventional dyeing. Journal of Cleaner Production, Vol. 72: 127–138."; Textile processing steps being similar for Modal and Viscose, therefore savings are based on calculations of fabric production and dyeing via jet dyeing excl. fiber impact.

Transparency – a topic at the heart of the Lenzing strategy

PROVE

Fiber identification technology makes fibers verifiable along the entire supply chain.

SHARE

Sharing of sustainability data with brand partners for high degree of accountability.

TRACK

Blockchain-enabled digital platform which is supported by a third party[6], makes product flow visible at every stage to secure your supply chain.

PARTNER

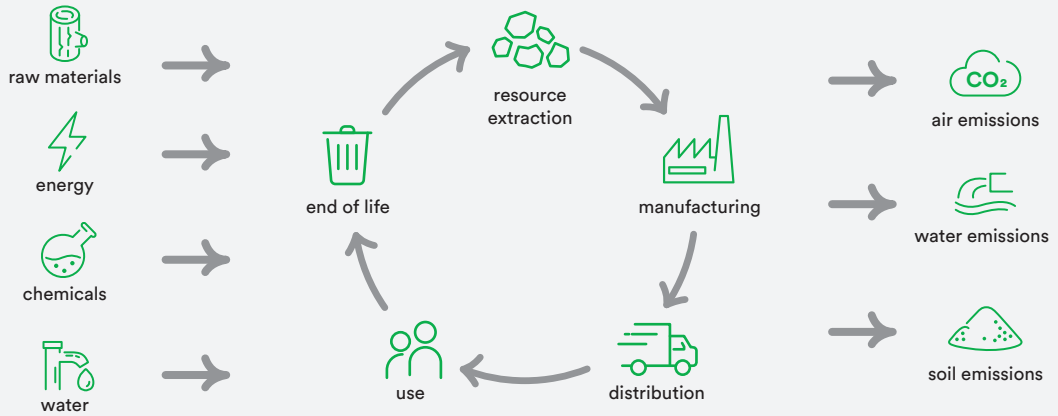
E-branding service offers one-stop application of certification and licensing to use our trademark and leverage our brand's reputation.

Life cycle assessment

Life Cycle Assessment (LCA) is a systematic and comprehensive method for evaluating the potential environmental impact of products throughout their life cycle. The cradle-to-gate assessment includes all stages of production, from the extraction of raw materials through processing, manufacturing, and transportation, up to the point of delivery to the customer.

The LCA takes into account two different aspects: materials entering the product system's boundary (raw materials, energy, chemicals and water) as well as the environmental impact that is created (air, water and soil emissions). Potential environmental impacts are calculated per kg of LENZING™ ECOVERO™ fiber and are expressed in different categories, such as Global Warming, Eutrophication or Abiotic Resource Depletion.

Lenzing uses LCA to identify areas for environmental optimization of products not only during fiber manufacturing but also within the supply chain. By conducting cradle-to-gate LCA for LENZING™ ECOVERO™ fibers, potential environmental impacts are discovered for all upstream and core process activities until the fiber leaves the factory gate.

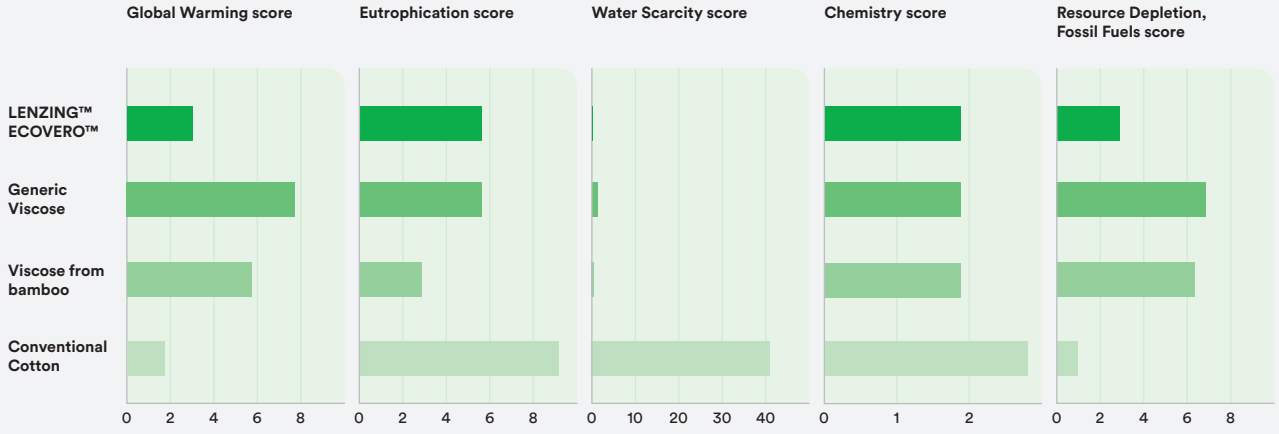


[6] For more information, refer to textilegenesis.com/

Higg MSI of LENZING™ ECOVERO™

The Higg Materials Sustainability Index[1] (Higg MSI) uses an LCA to evaluate environmental impacts of materials in the textile industry. The Higg MSI reports the category indicators of Global Warming, Eutrophication, Water Scarcity, Abiotic Depletion of Fossil Resources, and Chemistry per functional unit (1 kg of fiber) and additionally provides the two inventory metrics of Water Consumption and Biogenic Carbon Content.

	LENZING™ ECOVERO™
Global Warming	3.27 kg CO_2 eq.
Eutrophication	0.0054 kg PO_4^{3-} eq.
Water Scarcity	0.642 m^3 world eq.
Chemistry	4 units
Abiotic Resource Depletion, Fossil Fuels	39.99 MJ
Water Consumption	48.36 kg
Biogenic Carbon Content	0.39 kg C | 1.4 kg CO_2



Note: These results are from the Higg Materials Sustainability Index (MSI) tool provided by Cascale (formerly the Sustainable Apparel Coalition). The Higg MSI tool assesses impacts of materials from cradle-to-gate for a finished material (e.g. to the point at which the materials are ready to be assembled into a product). However, these figures only show impacts from cradle to fiber production gate. LENZING™ ECOVERO™ branded fibers' Higg MSI scores were calculated based on Higg MSI database v3.9.1 (December 2024). Calculation considers viscose production in Austria, China and Indonesia.

Lenzing
Innovative by nature

www.ecovero.com

[1] Results based on LCA standards (ISO 14040/44) and available via Higg MSI Version 3.9.1 (December 2024) Calculation based on LENZING™ Viscose EV, excluding LENZING™ Viscose EV Black and LENZING™ Viscose EV RB.