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Imprim Luxe[®]

O&F – Solutions of 100% bio and bio based ribbons, recycled ribbons and 100% biodegradable ribbons

FSC

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Sustainab

202



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REACH

OEKO-TEX® CONFIDENCE IN TEXTILES STANDARD 100



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WHAT IS TENCEL YARN AND WHY USING A TENCEL RIBBON FOR YOUR PACKAGING ?

TENCEL AND MODAL FIBERS

LENZING[™] Lyocell fibers



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ORIGIN OF THE TENCEL AND MODAL

Tencel is a trade mark of a new generation of artificial fibre called Lyocell. This artificial fibre comes from the same family as Fibrane, rayon/viscose and acetate.

Lyocell is a form of rayon which consists of **cellulose** fibre made from dissolving pulp (**bleached wood pulp**), using dry jet-wet spinning. It was developed at the beginning of 1972 by a team at the now defunct American Enka **fibers** facility in Enka, North Carolina.



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Lyocell, better known as **Tencel**, is a sustainable and natural fiber, made from the **wood pulp of trees that are grown and replaced in specialized tree farms**.

SUSTAINABLE FIBER

Unlike most **cellulosic** fabrics, Tencel is produced by using **recyclable**, Earth-friendly solvents and "regenerated cellulosic fibers", due to the manner in which they are manufactured.

Tencel[®] fibers originate from the renewable raw material wood created by the natural process of photosynthesis. The 100% organic Tencel[®] fibers are biodegradable and compostable, and can fully revert back to nature.



CLOSED-LOOP PRODUCTION PROCESS

The fiber is economical in its use of energy and natural resources. It is produced in a closed-loop system* which has a minimal impact on the environment and maintains economical use of energy and water. This solvent-spinning process recycles process water and reuses the solvent at a recovery rate of more than 99 percent.

* The closed-loop production process transforms wood pulp into cellulosic fibers with high resource efficiency and low ecological impact.

LENZING[™] Lyocell production process figure 4/5



Source: Sustainability Report 2017 Lenzing Group, page 57

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CHEMICAL*

*Non-corrosive and *non-toxic natural solvent*.

Highly efficient use of the raw material wood at the Lenzing Group's biorefineries figure 4/2



Source: Sustainability Report 2017 Lenzing Group, page 55

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Tencel[®] consumes only 3%* of the scarcity water used for conventional cotton cultivation.

Tencel[®]'s production from Eucalyptus is satisfied with natural rainwater

*According to the <u>Higg Index MSI</u>, the water scarcity used for the cotton fiber is **1,4409 m3** <u>VS</u> **0,0461 m3** for the Tencel fiber

Source: Sustainability Report 2017 Lenzing Group, page 58



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More than 99 percent of the wood is sourced from sustainable forestry operations^{*}. It is certified or inspected according to the FSC[®] and PEFC[™] standards.

LENZING[™] Lyocell Fibers are manufactured at this present time using dissolving pulp derived from wood as stated below and can be manufactured at these production sites: Lenzing (Austria), Heiligenkreuz (Austria), Grimsby (UK) and Mobile (USA).

All fibers and pulp production sites are certified in accordance with ISO 9001, ISO 14001, OHSAS 18001 system certification.

Woodland is the most important storage facility for CO_2 on our planet. For this reason, healthy forest areas are vital to climate protection. That's why we actively engage in the preservation of endangered and primeval forests.

*South Africa, Czech Republic, Slovenia, Slovakia, Ukraine, Scandinavia, Baltic countries, Russia, USA Wood species : BEECH – BIRCH – EUCALYPTUS - SOUTHERN PINE – SPRUCE – ASPEN – ACACIA

> Source: Origin confirmation, *Lenzing Group* Source: Sustainability Report 2017 *Lenzing Group, pages* **10-11**

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LENZING[™] LYOCELL PRODUCTION CAPACITIES

- Lenzing, Austria 71.000 t /year
- Heiligenkreuz, Austria 65.000 t /year (additional 25 kt lyocell ramp-up successfully started in 2018)
- Grimsby, United Kingdom 45.000 t /year
- Mobile, USA 51.000 t /year
- Prachinburi, Thailand Next location to build a state-of-the-art facility to produce lyocell fibers by the end of 2020*

*Source : "Lenzing invests in Thailand", Press releases, 06/29/2017 - https://www.lenzing.com/en/



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WHY HAVING A PACKAGING RIBBON IN TENCEL®?

Because, as explained above, Tencel[®] is **more eco-friendly** than cotton, which uses a lot of water, etc...

Moreover, **Tencel®** was created to allow a wide range of colours, thanks to the fibre's high absorbency. The ribbon can be dyed according to high quality standards.

Ribbon can be made with 100% Tencel[®], but can also be mixed with other types of fibre.

Oriol & Fontanel is working on his internal process, in order to minimize the overspend of the fibre compared to cotton, and has a high hope to reach the same level of price and allow our customers to switch from cotton to Tencel[®].

Do you want to try?

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Annex to CERTIFICATION CODE: CU-COC-868992

FSC Chain of Custody (COC)

Oriol & Fontanel SAS 6 rue Jacqueline Auriol F-42160 Andrezieux-Boutheon FRANCE

This certificate gives the right, in accordance with the agreements in the licencee-contract, on the basis of the accreditation of CU by the Forest Stewardship Council (FSC), to use the FSC logo for the unit(s), process(es) and/or product(s) mentioned below. Use of the FSC logo on (trade) products is only allowed for products mentioned under "products" in conformity with the category.

This certificate and its copies or reproductions shall be returned to CU immediately on request. More information about the client and/or products and/or units can be obtained at the website of CU (www.controlunion.com/certifications) or by contacting CU.

This certificate, referred to in the client contract as scope certificate, covers the following product(s), which comply(ies) with the latest version of the CU Forestry Standards:

Certified products

Product no.	Name of product	category	Processing unit(s)	
P 064008	P1.7.4 Rayon and other synthetic fibres	FSC 100%, FSC Mix	PRC109545, PRC109548	

This certificate covers the following Processing Unit(s), which comply(ies) with the latest version of the CU Forestry Standards: Processing units

Unit no.	Name of unit	Unit ref.	Address	Processes	
PRC 109545	Oriol & Fontanel (Andrézieux)	01	6 rue Jacqueline Auriol Andrezieux-Boutheon, FRANCE	Secondary processor	
PRC 109548	Oriol & Fontanel (Montfaucon)	02	ZA Le Masson BP1 Montfaucon en Velay, FRANCE	Secondary processor	

This certificate including the annex remains property of Control Union Certifications and can be withdrawn in case of terminations as mentioned in the licensee contract, or in case changes or deviations of the above mentioned data occur. The licensee is obliged to inform Control Union Certifications immediately of any changes in the above mentioned data. Only an original and signed certificate is valid.

Date of certification: 10 March 2020

Authenticated by

Place and date of issue: ANTWERPEN, 12 March 2020 On behalf of the Managing Director Mrs. J. Ritter Certifier

This certificate cannot be used as guarantee certificate for delivered goods!

CERTIFICATE

CERTIFICATION CODE: CU-COC-868992

Field of attention: FSC Chain of Custody (COC)

Issued to: Oriol & Fontanel SAS Andrezieux-Boutheon, FRANCE Project in: FRANCE

Standard:

FSC-STD-40-004 V3-0 Chain of Custody Certification; ,FSC-STD-50-001 V2-0 Requirements for use of the FSC trademarks by Certificate Holders;

Valid until: 09 March 2025

The validity of this certificate shall be verified on http://info.fsc.org/

Control Union Certifications declares to have inspected the unit(s), and/or products of the above mentioned certificate holder, and have found them in accordance with the standards mentioned above.

This certificate covers the unit(s), and/or product(s) as mentioned in the authenticated annex of this certificate. A full list of product groups covered by the certificate can be found on the FSC database of registered certificates (http://info.fsc.org/).

This certificate itself does not constitute evidence that a particular product supplied by the certificate holder is FSC-certified [or FSC Controlled Wood]. Products offered, shipped or sold by the certificate holder can only be considered covered by the scope of this certificate when the required FSC claim is clearly stated on invoices and shipping documents. This certificate remains in force until further notice, provided that the participant continues to meet the conditions as laid down in the client contract with Control Union Certifications and verified in annual inspections by Control Union Certifications.

FSC

www.fsc.org

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The mark of responsible forestry

Date of certification: 10 March 2020 Place and date of issue: ANTWERPEN, 10 March 2020

CERTIFICATE No: C868992CU-COC-01.2020 REGISTRATION No: CU 868992



Control Union Certifications Meeuwenlaan 4-6 8011 BZ ZWOLLE The Netherlands http://www.controlunion.com tel.:+31(0)38-4260100

Declared by:

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Used polyester fibers

For recycled ribbon O&F

RECYCLABLE POLYESTER YARN

PCR : Post Consumer Recycled yar



Coming of reprocessed plastic bottle



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• Use of organic fibbers as raw materials

Clean and sustainable • production

• French production

Contact us for any eco designed material for ribbons: 100% BIO COTTON, BAMBOO, SILK, ACETATE, GREENCEL, LYOCEL....



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