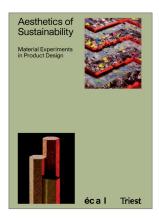
Triest Verlag für Architektur, Design und Typografie

Triest Verlag GmbH Hohlstrasse 400 8048 Zürich T: 0041 78 6483720 contact@triest-verlag.ch triest-verlag.ch



Thilo Alex Brunner (ed.) Aesthetics of Sustainability. Material Experiments in Product Design

Book design: Federico Barbon

2nd revised edition English, 272 pages, ca. 150 images 19×26 cm, softcover with flaps

Euro (D) 39–, Euro (A) 40.–, SFr. 39.– ISBN 978-3-03863-062-3

With contributions by Christophe Guberan, Chris Lefteri, Ala Tannir and graduates of the Master's Program Product Design of École cantonale d`art de Lausanne (ECAL). 2nd edition, May 2022

Developing Sustainable Materials

- Printed on resource-saving paper made from algae and residues from olive processing
- New and sustainable materials for product design

 Transfer of knowledge on how new materials are tested and used

This volume summarizes the results of "The Aesthetics of Sustainability", a research project led by ECAL/Ecole cantonale d`art de Lausanne. It brought together master's students of product design, established materials specialists, manufacturers and researchers with the aim of exploring and defining the aesthetic potential of a new generation of sustainable materials.

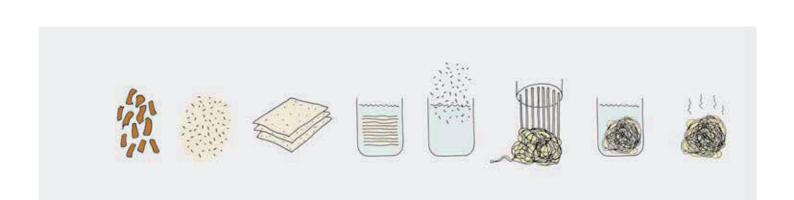
The result of this research-through-design project is a series of fourteen case studies involving the development of materials made from textile waste, recycled paper, rubber granulate or vegetable fibers such as algae, rice husks, hemp, flax and wood. The resulting new materials can be shaped, pressed, woven or welded. A selection of these materials will be presented through experiments and prototypes of products.

The aim is to offer future designers a range of practical tools and applied knowledge about the methods of analyzing and processing seminal materials, utilizing their advantageous qualities and developing functional, yet aesthetically intriguing objects.

The materials further aim to provide proof that sustainable materials are a great market opportunity for manufacturers and consumers alike.

Triest Verlag für Architektur, Design und Typografie

Triest Verlag GmbH Hohlstrasse 400 8048 Zürich T: 0041 78 6483720 contact@triest-verlag.ch triest-verlag.ch



About the editor

Thilo Alex Brunner is a Swiss product designer based in Zurich and co-founder of several design firms. He served a ten-year term as lecturer at ECAL/Ecole cantonale d`art de Lausanne and chaired the master's degree program Product Design until 2018.

SeaCell™



ntroduction

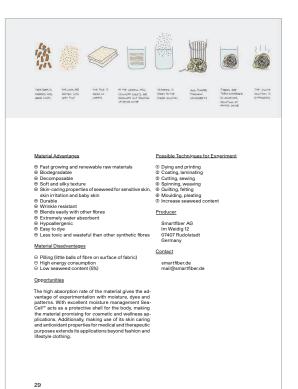
SeaCell[®] is a fibre made from beech tree-or euc lyptus-cellulose and organic seawed produced Austria using the Lyccell process: an innovative an exclusion into produced the therma soliton into the second seawed and the second second crushed, finely ground and incorporated to the liquistage of disolved cellulose. The solution is spunit fibres, cured in water and then processed into at je fibres. This process firmly embeds the seawed into the cellulose fibre and resists multiple washin cycles. All process liquids and water are recycle blockgradable.

echnical Descriptic

Inlike viscose and modal, Lyocell is created by a solent spinning technique in which the cellulose underleves no significant chemical change. The solvent used in the manufacturing process is amine oxide. Wood hich are soaked in chemical digesters that solten hern into verpuip. The pusi dried in aheets and rolled to spools. At the lyocel mill, the goods of o failulose d, pressurised vessel filled with amine oxide. After a hort to aking time, the cellulose a disclose into a clean out to the solution. The the cellulose a disclose into a clean out to the solution and then pumped through spinners imilar to a shower head, the spinners is pirced with mail holes and when the cellulose a disclose into a clean the reserve in another solution of amine oxide which estites that on the solution of amine oxide which estite filther extrands. The strands pass to a finishing area, he original filther are combined and senserate horized the circumst filthers are combined and senserate horized the solution of amine to circumst filthers are combined and senserate horized the solution of amine and the circumst filthers are combined and senserate horized the solution of amine and the solution of amine and the circumst filthers are combined and senserate horized thers are combined and the solution of amine and the solutis of amine and the rey are cut and baled for shipment to a fabric mill. he dilute solution is evaporated and 99% of the amine kide used is recoverable in the typical lyocell manuacturing process.

ical Applications

eaveed is rich in essential substances such as vitains, trace elements, amino adda and minerals. The tatural moisture level of the skin enables an active the and skin. The high level of antoxidants in saseved protects human skin and activates cell regenertion. The material is marketed as a vellness textilie tat is nourishing for the skin, with a smooth and liky feel. Lyccell three are known to be very soft, baorbent, strong when wet or dry, and crease-resent. The fibre is used in active and sportswers, ungewers, underwear and home textiles. SeaCell "contains on bermful substances therefore it is



Triest Verlag für Architektur, Design und Typografie

Triest Verlag GmbH Hohlstrasse 400 8048 Zürich T: 0041 78 6483720 contact@triest-verlag.ch triest-verlag.ch

