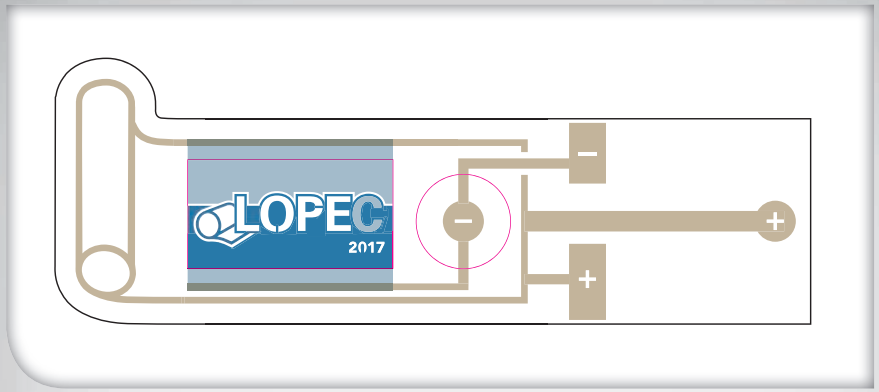
Directions for use



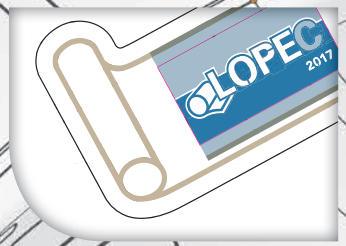
Electrochromic displays have the unique characteristics of organic and printed electronics: thin, lightweight, flexible, easy to manufacture, and robust. They can be integrated directly into various applications, making the technology attractive for industrial solutions. Electrochromic patterns, lines, and dots can be used as low-power displays for medical and healthcare, for example. Their low power consumption makes them also ideal for the packaging industry.

Electrochromic displays may be produced using either sheet-fed or web-fed printing. The LOPEC 2017 Demoline demonstrator was produced using material systems of OE-A members employing sheet-fed screen printing.

Guided Tours
Join the guided tours of the Demo Line on the exhibition days:
March 29 and 30 at 9:30 (English), 12:00 (German), and 14:00 (English).
Interested visitors should gather at the Demo Line Meeting Point.

LOPEC Demo Line 2017

Joining Forces



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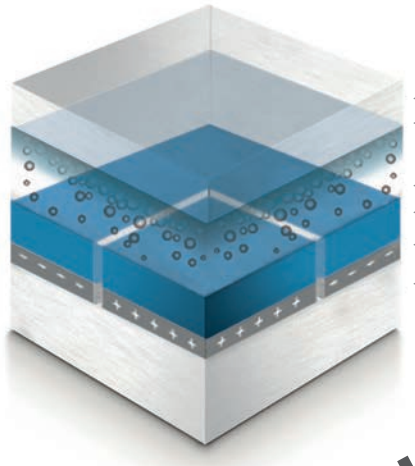
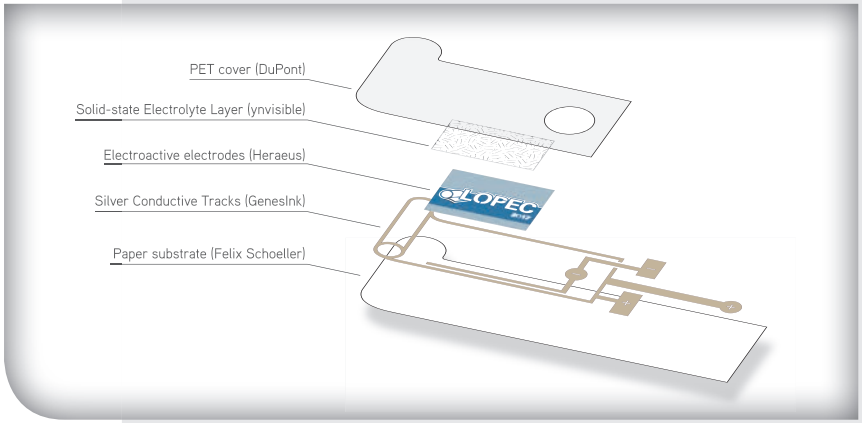
Electrochromic Display



Layer stack

Image source: Ynvisible

Low power displays for various applications



The basic principle of electrochromic (EC) displays is the change of contrast (i.e. color) caused by an electrochemical redox reaction. When charge is accumulated in the electrochromic layer due to applying a current the reaction becomes visible. This color change is reversible.

The LOPEC 2017 demonstrator can be operated by a battery – either a printed battery or a coin cell.

Employing a coin cell please place the coin cell besided the display and fold the other terminal onto the coin cell. When using a printed battery please adjust the two terminals according to the conductive traces.

Pick up a coin cell with your personal demonstrator. There is also the chance to get a printed battery at some exhibitors booths.

Process chain of demonstrator manufacturing

batteries by VARTA

substrates: Felix Schoeller Group – Best Performing Papers. Worldwide. / DuPont Teijin Films

materials: GenesInk Nanosolution Provider / Heraeus / ynvisible

printing: THIEME / ynvisible / gtw

post-treatment: adphos – Your Partner for Thermal Processing

supported by

Coatema Coating Machinery GmbH · Dimatix FUJIFILM · EXAKT · KT Kelenn Technology · NOVACENTRIX · Polytec · XENON

technology support by

ynvisible

organized by

Fraunhofer ENAS · baumann printing research