ECO
Unique and Sustainable RFID Tag Technology

Stora Enso, Intelligent Packaging
Unique inlayless RFID label structure

ECO uses a sustainable fibre-based paper substrate and low-cost conductor that offers higher conductivity. During conversion, the antenna paper substrate acts as a face material, enabling you to eliminate an extra face laminate layer.

You can select the label adhesive from a wide variety of existing materials: conventional, food-safe or even re-pulpable PSAs. This material combination has positive impacts on tag recycling and waste management processes – our paper-based ECO tags have no environmental impact on the paper and cardboard recycling chains, or any significant impact on landfill operations or their emissions.

Introducing ECO – a sustainable solution.

Unique Technology

Stora Enso’s proprietary, patented ECO technology gives you an innovative and feasible alternative to traditional inlay manufacturing processes. It is a simple, high-speed and cost-efficient method.

All this is enabled with an additive, dry antenna manufacturing process, high-speed IC assembly and simplified label converting machine requiring fewer material layers.

Competitive cost

ECO RFID tags are manufactured using an additive technology that requires only a small footprint. This means that you can locate all processes under one roof and compress the supply chain.

Simplified, high-capacity machinery reduces production costs. And a thin, inlay-less label structure lowers material and shipping costs.

As a production technology, ECO is fully compatible with all Stora Enso’s tag designs.
Benefits of ECO

- Environmentally friendly materials – sustainable, renewable, no impact on existing waste streams or recycling
- Excellent reliability with paper-based inlay
- Excellent performance with printed antenna – 90-95% the performance of etched aluminum
- Cost level of ECO tags is comparable to etched AL products, with a clear roadmap towards cost leadership
- Fibre-based substrate enables new features – label can be embedded on package, made tamper-proof, non-transferable, re-pulpable

Contact us for more information:
www.storaenso.com/intelligentpackaging