

# ECO Bumper RAIN RFID Label

Stora Enso, Intelligent Packaging



## Sustainable RAIN RFID label for industrial applications

ECO Bumper UCODE 8 makes the perfect choice for demanding applications. ECO Bumper features best-in-class performance, reliability and a flexible structure. It is designed and optimised for global industry and supply chain applications. ECO Bumper delivers excellent performance on a wide range of materials end environments.

Use of paper substrate enables a thinner tag structure, eliminating one plastic substrate layer and two adhesive layers. Thinner structure makes the label more flexible and the label adheres well on curved surfaces such as paper roll cores. The label is fibre-based and can be recycled together with other fibre-based packaging or material. Environmentally friendly ECO Bumper has no impact on existing waste streams or recycling processes.



ECO RFID  
Tag Technology  
by Stora Enso

### Applications



Industry



Supply chain  
management



Retail

# Key features of ECO Bumper

## High performance for demanding applications

ECO Bumper is ideal for demanding logistics and supply chain applications. ECO Bumper features best-in-class performance on a wide range of dielectrics, in challenging environments and provides the reliability required for high grade of automation and efficiency.

## A reliable choice

ECO Bumper passes industry standard tests for temperature and humidity (IEC 60068-2-67), temperature cycling (JESD22-A104-B) and tag bending tests. These comprehensive tests ensure ECO Bumper performs at all stages of the product's life cycle and can safely be used to track items from source to point of sale.

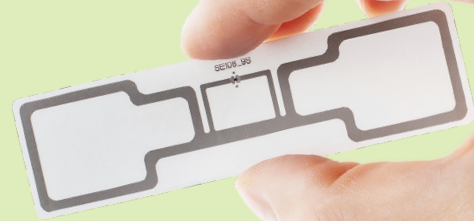
## Global tag for global operations

ECO Bumper makes the ideal choice for global operations, as it is compliant with current frequency regulations. Embedding ECO Bumper into packaging or converting ECO Bumper into stickers is easy, the delivery format is a 2-layer paper tag without the extra polyester layer found in all traditional etched inlays.

### About Stora Enso

Our aim is to replace non-renewable materials by innovating and developing new products and services based on renewable materials. And by transforming the world, we are transforming ourselves too; growing our expertise to meet the needs of our customers and overcome many of today's raw material challenges. As the leading global provider of renewable solutions in packaging, biomaterials, wooden constructions and paper, we employ around 26,000 people in 35 countries. Intelligent Packaging by Stora Enso is a leading global provider of products and services that enable our customers' digital transformation using the internet of things (IoT). We provide them with the means to connect physical items, gain efficiency, quality and visibility and exceed their customers' expectations.

Stora Enso's ECO Bumper UHF label in 60% of its natural size.



## Technical details

### Sales Code

500012

### IC & electrical details

NXP's UCODE 8

128 bit EPC

860 - 960 MHz

EPC Gen2v2, ISO 18 000-63

### Size

Paper Tag size 97 x 27 mm / 3.82 x 1.06 in

### Web width

100 mm

### Operating temperature

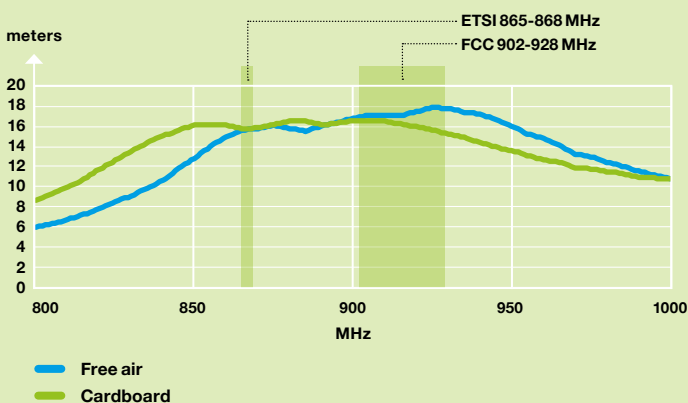
-5 °C...+60 °C / +23 °F...+140 °F

### Delivery details

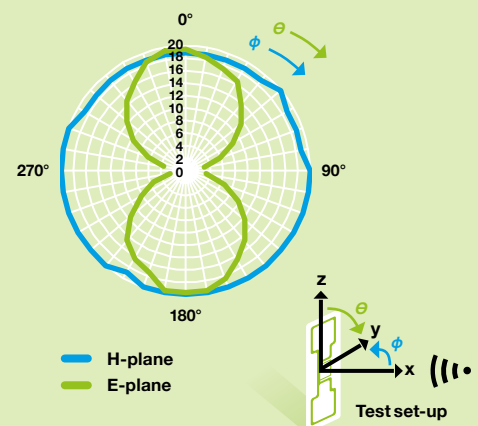
76 mm / 3 in core

1 year shelf life in +20 °C / 68 °F, 50 % RH

## Theoretical read range forward



## Orientation sensitivity



Contact us for more information:

[www.storaenso.com/intelligentpackaging](http://www.storaenso.com/intelligentpackaging)

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THE RENEWABLE MATERIALS COMPANY