Bumper
RAIN RFID Label

Stora Enso, Intelligent Packaging

UHF Label Optimized for Industrial Applications

Industrial applications typically involve challenging environments affecting the RF performance of used tags. Thus the inlays need to have top-class design and a flexible structure, as well as good reliability and cost efficiency. Stora Enso's Bumper UHF label meets these requirements, while improving performance and efficiency in industrial and logistics use cases.

Bumper tag incorporates a robust design and NXP's UCODE 8 IC for global performance in a wide variety of RFID tagging applications, even in the most demanding ones.

Stora Enso's Bumper UHF label is optimized for global retail, industry, RTI (Returnable Transport Items), and supply chain applications, and has excellent performance on different packaging materials and reading environments. A thin and flexible tag structure also suits curved surfaces such as paper roll cores.
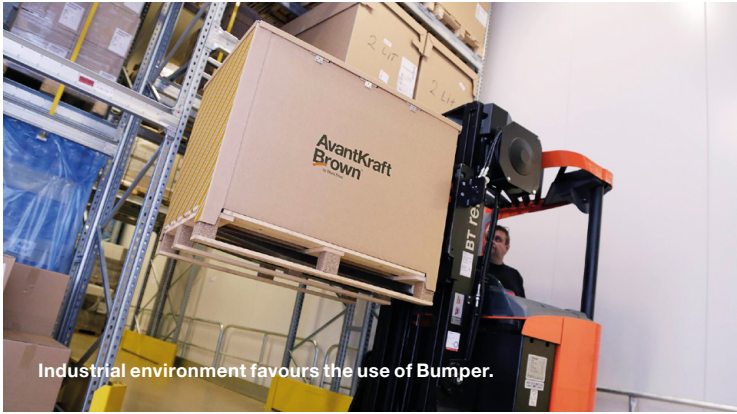
Applications

Industry

Supply chain management

Retail

Industrial environment favours the use of Bumper.

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

Key features of Bumper

Global performance

Bumper tag has an excellent read distance compared to its size and enables fast inventory of a dense RFID tag population. With its broadband design, it is a true global RFID tag with best-in-class performance across worldwide regulations. The same tag can be used by the manufacturer, logistics service provider and retailer to track and identify products accurately and cost efficiently throughout the supply chain at item level.

Featuring UCODE 8

Bumper's UCODE 8 technology provides new features not present in NXP's earlier IC generation UCODE 7, including a self-adjust feature. This auto-tuning mechanism ensures 'peak sensitivity' and consistent product performance in a broader range of operating frequencies and applications. An optional and customized feature of the UCODE 8 is a unique brand identifier to validate authenticity for added brand protection.

Technical details

Sales Code
500003

IC & electrical details
NXP's UCODE 8
128 bit EPC
860 - 960 MHz
EPC Class 1 Gen 2, ISO 18 000-6C

Size
Paper Tag size 97 x 27 mm / 3.82 x 1.06 in
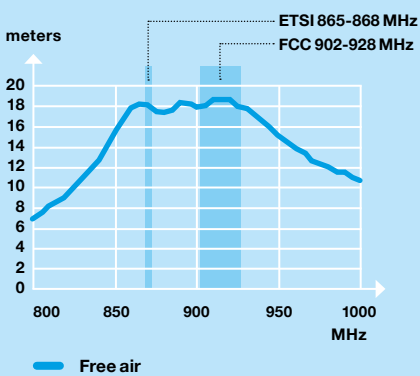
Web width
100 mm

Operating temperature
-5 °C…+60 °C / +23 °F…+140 °F
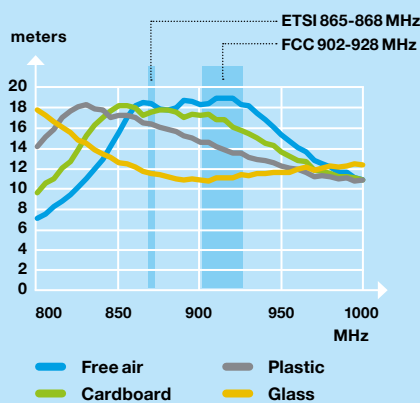
Delivery details
76 mm / 3 in core
3 500 pcs/reel, 14 000 pcs/box
1 year shelf life in +20 °C / 68 °F, 50 % RH

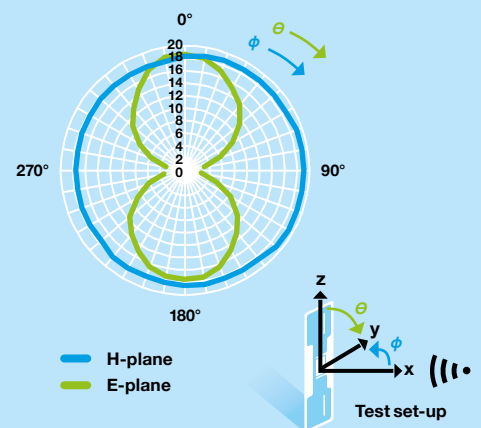## Read Range, Self Adjust

ETSI 865-868 MHz
FCC 902-928 MHz

meters

— Free air

Read Range

ETSI 865-868 MHz
FCC 902-928 MHz

meters

— Free air
— Cardboard
— Plastic
— Glass

Orientation sensitivity

0°
270°
90°
180°

— H-plane
— E-plane

Test set-up

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

CE   REACH COMPLIANCE   RAIN RFID

THE RENEWABLE MATERIALS COMPANY