

ECO Stripe RAIN RFID Label

Stora Enso, Intelligent Packaging



Sustainable RAIN RFID label for new retail and on-metal applications

ECO Stripe uniquely combines anti-tamper functionality with outstanding wide-band performance in on-metal and other hard-to-tag applications. ECO Stripe is fibre-based and highly engineered to enable unique tamper-proof functionality.

ECO Stripe makes an excellent, easy and cost-efficient solution in many different tagging scenarios. The anti-tamper label helps to prevent shrink and to reduce shoplifting, fraud and administrative errors. Unmanned retail is a fast-growing application area for RFID, and the ECO Stripe label provides merchandise visibility even for metallic items such as drink cans, enabling superior shopping experience.

ECO Stripe is available with both UCODE 8 and Monza R6 – the latest UHF ICs.

Available with
both NXP
UCODE 8 and
Impinj Monza R6



Applications



Retail



Industry



Pharma

Key features of ECO Stripe

Anti-tamper on-metal tag

ECO Stripe is partially applied on a metallic object. The attached part couples with the metal surface and boosts antenna performance, providing a highly cost-efficient way to tag metallic items without compromising performance. With its small form factor, you can use ECO Stripe even in the smallest retail stock keeping units (SKU) or to tag small metallic industrial tools and parts. The paper based structure allows tamper protection – a highly sought after feature especially in unmanned retail applications where shrink poses one of the biggest challenges. If the tag is moved forcibly from the item, the label breaks requiring payment for the item.

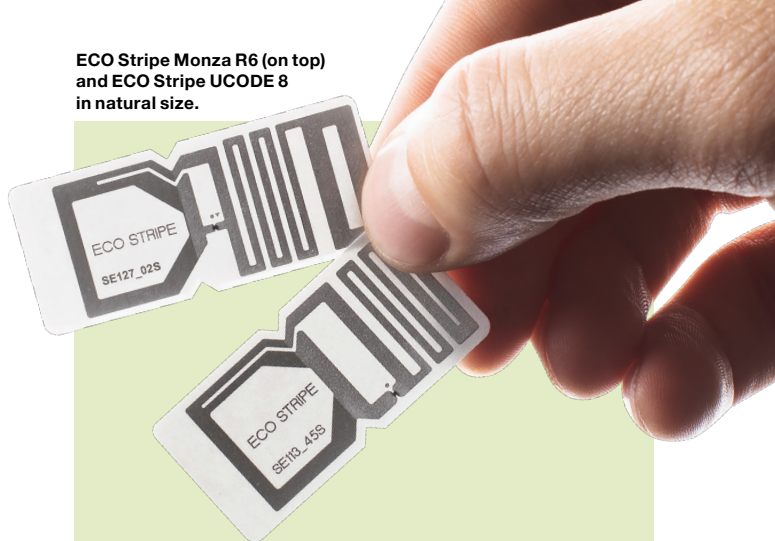
A reliable choice

ECO Stripe 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 Stripe performs at all stages of the product's life cycle and can safely be used to track items from source to point of sale.

Green label

ECO RFID tag technology enables Stora Enso to create sustainable RFID labels with environmentally friendly processes and materials. The 100% fibre-based ECO Stripe is manufactured with clean and green manufacturing processes using renewable materials. The product does not contain plastic or toxic materials, and it has a low carbon footprint. Eco Stripe is recyclable and biodegradable, minimising the ecological footprint and making it a natural choice for high-volume applications.

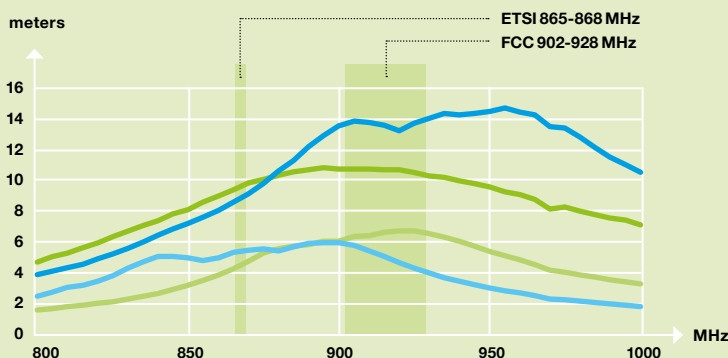
ECO Stripe Monza R6 (on top) and ECO Stripe UCODE 8 in natural size.



Technical details

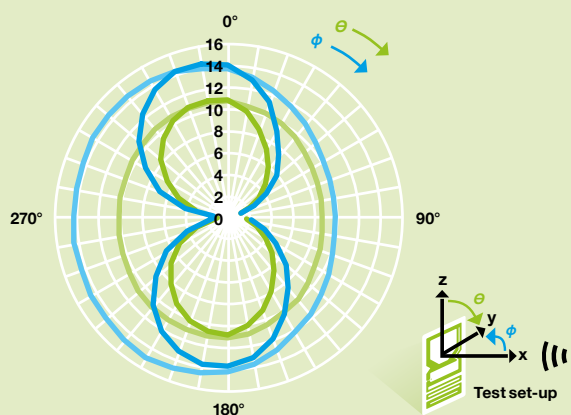
Product	ECO Stripe UCODE 8	ECO Stripe Monza R6
Sales Code	500054	500076
IC & electrical details	128 bit EPC	96 bit EPC
	860 - 960 MHz EPC G2v2, ISO 18 000-63	
Size (Paper Tag)	43 x 21 mm / 1.69 x 0.83 in	48 x 20 mm / 1.89 x 0.827 in
Web width	46 mm	52 mm
Operating temperature	-5 °C...+60 °C / +23 °F...+140 °F	
Delivery details	76 mm / 3 in core 4 000 pcs/reel, 32 000 pcs/box 1 year shelf life in +20 °C / 68 °F, 50 % RH	

Theoretical read range forward



- ECO Stripe UCODE 8 on metal
- ECO Stripe UCODE 8 on free air
- ECO Stripe MR6 on metal
- ECO Stripe MR6 on free air

Orientation sensitivity on metal



- H-plane ECO Stripe UCODE 8
- E-plane ECO Stripe UCODE 8
- H-plane ECO Stripe MR6
- E-plane ECO Stripe MR6

Contact us for more information:

www.storaenso.com/intelligentpackaging

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience and the pictures and illustrations presented in this document are for illustration purposes only. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use. Stora Enso reserves the right to change its products and services at any time without notice.

