



ECO RFID
Tag Technology
by Beontag

Microwave-Safe, Recyclable RFID Tags with TÜV Certification

The ECO Meal U8 is specifically designed for microwave use with ready-made meals. Unlike traditional RFID tags, ECO Meal doesn't need to be removed before heating and is recyclable with paper packaging.

ECO Meal meets TÜV Rheinland certification standards and withstands microwave cooking for up to 5 minutes at 950W.

ANTENNA DIMENSIONS

94X10 mm



MICROWAVE
SAFE



ASSET
TRACKING



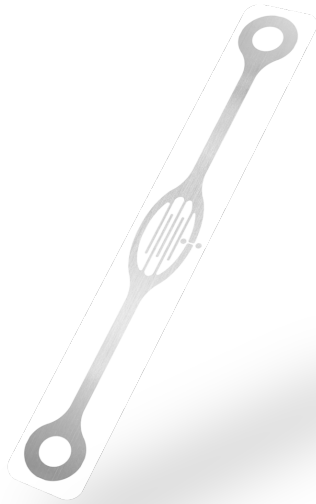
SUPPLY CHAIN
MANAGEMENT



RAIN RFID TAG

ECO Meal U8

ECO Meal U8 key features



ECO Meal at 1:1 scale

Microwave-resistant specialty ECO tag for food packages

The ECO Meal tag is specifically designed for microwave use with ready-made meals. For best results, ensure the ECO Meal RFID tag is attached directly to the food package with sufficient food next to it inside; there must be no air gap between the package and the tag.

Microwave resistance

5min <950W
4min 1200W
2min 1800W

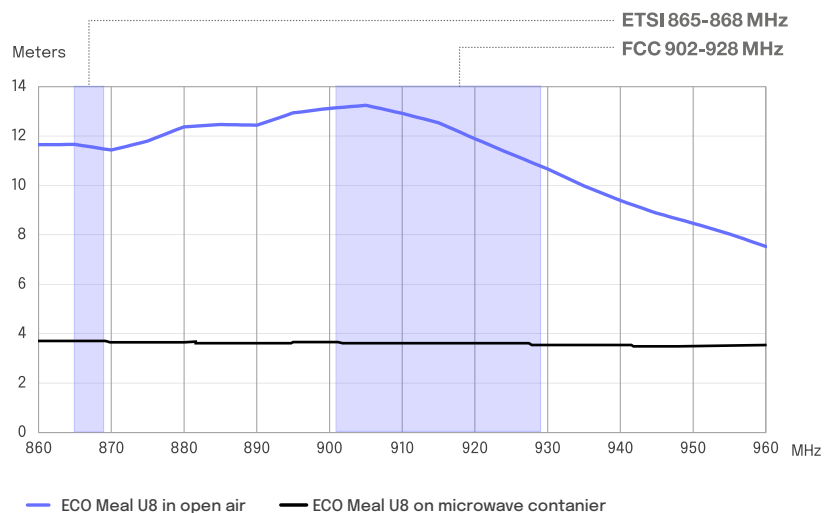
A reliable choice

ECO Meal passes industry standard tests for temperature and humidity (IEC 60068-2-67), temperature cycling (JESD22-A104-B) and tag bending. These comprehensive tests ensure that ECO Meal will perform well at all stages of its life cycle and can be used safely to track items from source to point of sale.

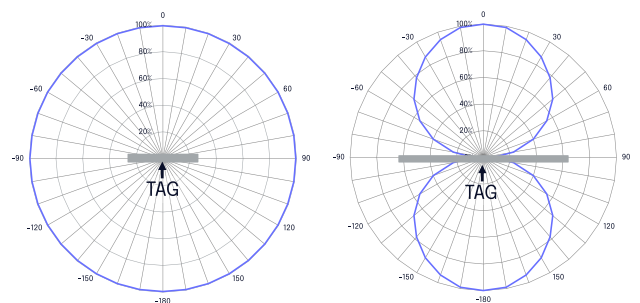
Technical specifications

PRODUCT	ECO MEAL UCODE 8
Sales Code	3004544
IC & electrical details	128 bit EPC 860-960 Mhz EPC Gen2v2, ISO 18 000-63
Size (paper tag)	97 x 13 mm
Web width	100 mm
Delivery details	76 mm core 5000 pcs/reel 1 year shelf life at +20°C, 50%RH

Theoretical read range forward



Orientation Sensivity in open air



The performance of the product should always be tested under 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 under conditions beyond our control, we cannot assume any liability for damage caused through their use. Beontag reserves the right to change its products and services at any time without notice.

Suitable Use Cases

ECO tags are made with a sustainable paper-based substrate, which has limitations in durability. They are tested to withstand standard converting and label applicator processes, as well as indoor retail and logistics environments. Compared to PET-based tags, paper-based ECO tags are more sensitive to high humidity and are not suitable for applications involving heavy wrinkling. For more information, please contact Beontag.

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About Beontag

From the science of graphic and label materials, RFID and wireless IoT enablers, we create solutions across the value chain to deliver digital transformation for businesses around the world.

Sustainability is at the core of what we do and we strongly believe that by substituting non-renewable materials and innovating through more sustainable and renewable products, we act as an ESG enabler for our customers' value chain.

Beontag is one of the world's leading providers of RFID and wireless IoT solutions, being present in more than 40 countries with 7 R&D centers and 2,000 employees, in constant development of technological and sustainable solutions designed to connect items, and gain efficiency and end-to-end traceability

CONTACT US FOR
MORE INFORMATIONS:
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