

## EAGLE™ GREEN

### Top Read Range and Sustainability for Retail Applications

Smartrac's EAGLE™ GREEN inlays and tags combine superior sustainability characteristics with compact size, excellent read range and high quality for retail-optimized applications. In accordance with the strict criteria applicable for Smartrac's Green Tag Program, EAGLE GREEN uses plastic-free, fully recyclable paper as the substrate, foregoes adhesives as much as possible, and comes with a laser-cut aluminum antenna that allows the complete recycling of aluminum residues, resulting in a significant carbon footprint reduction.

EAGLE GREEN's sustainability benefits do not compromise its performance, which matches that of the conventional EAGLE inlay. Both EAGLE and EAGLE GREEN are among the smallest retail-orientated inlays with global performance available on the market. Both have passed Auburn University's ARC categories A, B, C, D, F, G, I, K, M, Q, W2 and W5, and are available in dry and paper-tag delivery formats with a compact size of 44 × 28 mm / 1.7 × 1.1 in, which allows easy conversion for end-application usage.

EAGLE GREEN is equipped with an NXP UCODE 8 IC, which shares memory size and typical IC features with NXP's UCODE 7 IC, and additionally offers benefits such as a Self-Adjust feature to maximize product performance in challenging environments, improved read and write sensitivity, and a very fast encoding speed. Furthermore, the chip has an integrated Brand Identifier function to prove product authenticity and a memory safeguard system to protect business data.

EAGLE GREEN benefits from the capabilities of Smart Cosmos: Smartrac's IoT platform can record and manage a complete set of unique transponder data (e.g. UID no., order no., batch no., or yield) at production level in a controlled and secure way. As the backbone of Smartrac's product digitization solutions, Smart Cosmos enables full traceability of delivered RFID products and provides reliable quality assurance.

All of Smartrac's RFID products are compliant with ISO 9001:2015 Quality Management and ISO 14001:2015 Environmental Management, which ensure a reliable and state-of-the-art product that meets a variety of application needs, especially in the retail environment.

#### Overview

**Operating Frequency**  
860 - 960 MHz

**Integrated Circuit (IC)**  
NXP UCODE 8

**Antenna Size**  
44 × 28 mm (1.7 × 1.1 in)

**Die-cut Size**  
47 × 31 mm (1.9 × 1.2 in)

#### International Standards

▶ EPC Class 1 Gen 2  
ISO 18000-63

#### Application Areas

- ▶ Brand Protection
- ▶ Industry
- ▶ Product Authentication
- ▶ Retail
- ▶ Supply Chain Management

# EAGLE GREEN

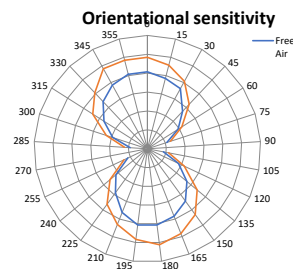
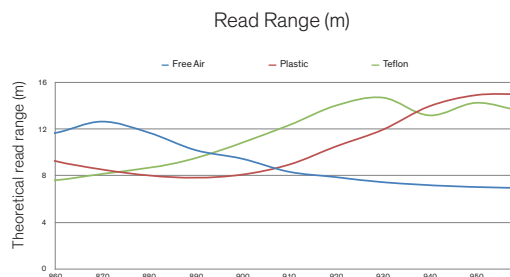
## Top Read Range and Sustainability for Retail Applications

Technical Features			
<b>IC + Memory</b> NXP UCODE 8 128 bit EPC	<b>Size</b> 47 × 31 mm / 1.9 × 1.2 in	<b>Format</b> Paper Tag	<b>Sales Code</b> 3007417
Web Width	50 mm / 1.96 in		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	Acrylic, water borne adhesive		
Qty/Reel	5,000 pcs per reel		
Core Size	76 mm / 3 in		
Shelf Life	+20 °C, 50 % RH / 68 °F, 50 % RH - minimum 2 years from the date of manufacturing		

### The Green Tag Program

Smartrac has taken on a holistic approach to manufacture RFID products that live up to a true sustainability promise even under strict Life Cycle Assessment (LCA) scrutiny. By implementing innovative manufacturing processes and materials, the use of plastic, chemical etching and heavy metals can be avoided:

- ▶ Plastic-free, recyclable or compostable paper as inlay substrate
- ▶ Complete recycling of aluminum residues from etching-free antenna production process
- ▶ Antenna materials are free of heavy metals



All the graphs are indicative: performance in real life applications may vary. The data has been determined based on calculations for transmitters with a 2W ERP output power level.

**Smartrac N.V. · Strawinskylaan 851 · 1077 XX Amsterdam · The Netherlands**

Phone: +31 20 30 50 150 · Fax: +31 20 30 50 155

**Contact: Sales & Customer Service**

smartrac-group.com/contact



© 2019 Smartrac N.V.

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use.

info@smartrac-group.com

