



WEB GREEN

Optimal Sustainability, Optimized for Retail

High performance and best-in-class orientation sensitivity combined with minimized ecological impact and cost efficiency: Those are the characteristics that define Smartrac's WEB GREEN inlays and tags. As part of Smartrac's comprehensive Green Tag Program, WEB GREEN inlays and tags are the outcome of the RFID industry's most advanced and eco-friendly manufacturing processes and are particularly suitable for item-level retail applications.

Like all WEB products, WEB GREEN inlays and tags are compact, ideally shaped and can be easily converted for use as apparel hang-tags, providing high read reliability with optimum performance, resulting in low fixed infrastructure and total costs.

What makes WEB GREEN special is the use of plastic-free, fully recyclable FSC certified paper as the substrate, minimal usage of adhesives during antenna manufacturing and chip bonding, and the use of laser-cut aluminum antennas which renders chemical etching unnecessary. That allows the complete recycling of aluminum residues and results, amongst other benefits, in a significant carbon footprint reduction.

WEB GREEN inlays and tags sustainability benefits go along with an uncompromised performance: Equipped with Impinj's Monza R6-P IC, the ecologically optimized products fully leverage the IC's capabilities and have similar reliability and performance as their conventional R6-P based counterparts. Additionally, they pass exactly the same ARC certifications needed for retail applications (Categories A,B,C,D,F,G,I,K,M,Q).

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)
Impinj Monza R6-P

Antenna Size
50 × 30 mm (1.97 × 1.18 in)

Die-cut Size
54 × 33 mm (2.13 × 1.34 in)

International Standards

- ▶ EPC Class 1 Gen 2
ISO 18000-63

Application Areas

- ▶ Brand Protection
- ▶ Retail
- ▶ Supply Chain Management

WEB GREEN

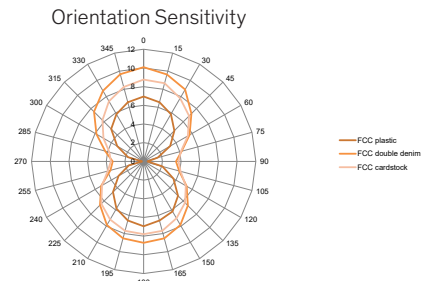
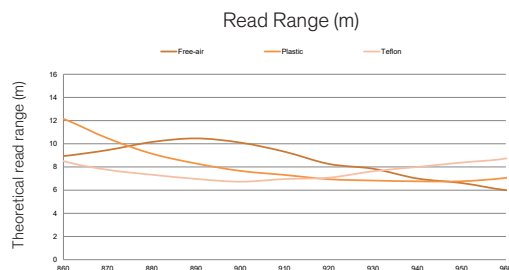
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Technical Features			
IC + Memory 128 bit EPC + 32 bit user 96 bit EPC + 64 bit user	Size 50 × 30 mm / 1.97 × 1.18 in	Format Paper Tag	Sales Code 3007148
Web Width	60 mm / 2.362 in for 3007148		
Operating Temperature	-40 °C to +85 °C / -40 °F to +185 °F		
Adhesive	Acrylic, water borne adhesive		
Qty/Reel	3.000 pcs for Wet format 3007148		
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.

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