



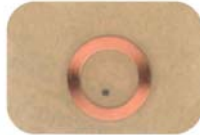
impro®

RFID Tags

Product Specifications Catalogue

www.impro.net

ImproX Adhesive Label Tag



Overview

Impro provide a wide range of high-quality RFID tags for use with their range of access control systems. These tags are manufactured to international standards, providing long and trouble-free operation in the field.

The Impro Adhesive 125 kHz Read-only Omega Tag is manufactured using fully automated technology, producing a high quality tag, with an excellent surface for superior printing results.

The anti-tamper feature causes the tag to cease functioning if removed from its location.

Instructions for Use

Application

The surface to which the Adhesive Tag is to be applied must be free of dust, oils and moisture. Assume that all surfaces are contaminated, and clean and dry them carefully before application of the Tag.

Typical suitable surface cleaning solvents are 50/50 isopropyl alcohol/water mixture or heptane. After application of the solvent the surface area should be wiped with a lint free dry cloth to remove residue.

Apply very firm pressure to the transponder location surface area. After positioning the Adhesive Tag, rub gently with a soft cloth to guarantee close bonding with the surface.

The tape and the surface to be bonded must have a surface temperature between 21 and 38 degrees centigrade when the Tag is applied. The adhesive becomes too firm to adhere readily at temperatures below 10 degrees centigrade.

After application the bond strength increases and approaches the ultimate bond strength after 72 hours.

NOTE: It is very important that the Label Tags be removed from the backing paper by rolling the backing paper away from the Tags as shown in Figure 1. UNDER NO CIRCUMSTANCES should the Tags be peeled from the backing paper. Lack of attention to this procedure may cause damage to the Label Tag and result in a higher rate of Label Tag failure, and Impro cannot be held responsible for such damage.

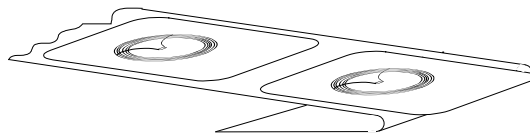


Figure 1 – Removing Tag from backing strip

Storage

The following storage conditions should be observed:

The storage temperature must be in the range 0°C to 40°C, and the relative humidity must not exceed 65%. The Adhesive Tags should ideally be stored in the dark, and away from direct sunlight. (Dark air-conditioned storage is best).

To prevent damage to the Tags by Electrostatic Discharge (ESD), they should be stored in the Anti-static Bags in which they are supplied until required.

This is an Impro Omega Tag; the term 'Omega' signifies that the tag header code is 30-7.

Specifications

Physical

Dimensions	
Length	: 35 mm ± 0.5 mm (3.4 in ± 0.02 in).
Width	: 25 mm ± 0.5 mm (9.84 in ± 0.02 in).
Thickness	: < 0.8 mm (0.03 in).
Material	: Polypropylene film
Colour	: Gloss transparent.
Shape	: Rectangular.

Environmental

Temperature	
Operating	: 0°C to +65°C (+32°F to +149°F).
Storage	: 0°C to +40°C (+32°F to +104°F).
Stress Endurance	: The tag is designed to endure common stresses found when bonded to suitable material, and used to identify items in, say, an inventory management system.

Electrical

Operating Frequency	: 125 kHz ± 6 kHz.
IC Type	: EM4100.
Encoding	: 64-bit ASK Manchester.
Reader Interface	: Read-only.

Printing

The non-adhesive surface of the Adhesive Tag is printable.

Compatibility

The tag is compatible with all current Impro IXP 125 kHz readers.

Standards

Production processes – ISO 9000

Warranty

Three years.

Product Codes

TOL900-1-0-NN-XX	: ImproX Adhesive Label Tag (Full description: Tag, Rectangular Label, 35mm x 25mm, 15mm Chip and Coil, Self-Adhesive, Anti-Tamper, 125 kHz, Read Only, Omega, Code 30-7).
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Impro Technologies reserves the right to change any information or data in this specification, or the specifications of the product itself, without prior notification. The distribution of this document is not controlled. Any changes or additions to the product by the customer are the responsibility of the customer.

This Product Specification Catalogue applies to the ISO Credit Cards listed under Card Options (The last two digits of the Impro stock code point to the issue status of the product).			
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