

GARBAGE BIN TAG



Global Tag **GARBAGE BIN TAG** is an IP68 RFID tag made of durable nylon material, specifically designed for waste bin tracking applications. Its robust construction ensures reliable performance in outdoor environments where exposure to water, shocks and mechanical stress is common.

Waterproof and resistant to vibrations, it is widely used in waste sorting and waste management systems, enabling efficient identification and traceability of containers throughout collection and recycling processes.

GARBAGE BIN TAG is available in LF, HF or UHF frequencies, allowing flexibility depending on reading distance and application requirements. Different customization options are available, such as color molding, UID or serial number engraving, as well as additional features on demand to support integration into existing waste management systems.

MECHANICAL AND ENVIRONMENTAL SPECIFICATIONS:

Dimensions: Ø 30mm x 14,8mm

Mounting System: Screw-in

Weight: 6,5 gr.

Material: Nylon + Epoxy

Color: Generally black – Available optionally any other colors

Class Protection: IP68 (Totally protected against ingress of solid / Protected against long period of immersion)

Storage Temperature: -55°C (for 3h) to +120°C (for 2h in the oven) / -67°F (for 3h) to +248°F (for 2h in the oven) (for any other particular request or various environment, contact us)

Operating Temperature: -20 to 120 °C / -4°F to +248°F

Weather Ability: Very Good, including UV resistance and sea water

Delivery format: Singulated

Expected lifetime: Years in normal operating conditions

Chemical resistance:

No physical or performance changes in (tested up to, more hours can be):

- 200 hours Motor oil immersion
- 200 hours Salt water (salinity 10%) exposure
- 200 hours H2SO4 Sulfuric acid (10% pH 2) exposure
- 24 hours NaOH Caustic Soda (10%, PH 13) exposure
- 24 hours HCl Muriatic Acid (10%) exposure
- 24 hours Na2CO3 Soda Solvay
- 24 hours NH3 Ammoniac (5% to 25%)

AVAILABLE CHIP SPECIFICATION:

	LF 125Khz	HF 13,56MHz	UHF 860-960MHz
Device type	N.D.	N.D.	Class 1 Gen 2
Air interface protocol	N.D.	ISO14443 and ISO15693 and NFC	ISO18000-6C
IC Type Available	TK4100, T5577, EM4200, other on request	I-Code SLIX,, Mifare Ultralight, Mifare Classic 1K, Mifare Classic 4K, Ntag203, other on-request	Alien Higgs9, NXP U-Code8, NXP U-Code9
Size Inlay	25mm diameter	25mm diameter	25mm diameter
Read Range	Up to 10cm	Up to 10cm	

CUSTOMIZATION OPTIONS:

Printing laser engraving: Serial UID, serial progressive number from database, randomize number from database text. Other customization on required.

Pre-Encoding: Customer specific encoding LF or HF (ISO15693 or ISO14443) user memory and UHF EPC. For NFC chip encoding memory with different type of NFC (E-mail, URI etc.)

ORDER INFORMATION:

Standard product is made with Nylon Material and Epoxy

PRODUCT CODE: GT-GRBGY-xx (xx defined type of chip required)

Please contact us for more information:

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