# **BEONTAG CARRIER TOUGH SLIM**







# **Description**

Durable tag solution for reliable plastic container and returnable transit item tracking.



## **Electrical specifications**

## **Device type**

UHF RFID / EPCglobal Gen2v2

### **Operational frequency**

Global 865-928 MHz

#### IC type

Impinj M780™

### **Memory configuration**

EPC 496 bit; User 128 bit; TID 96 bit

## **EPC** memory content

Unique random 96bit EPC in every label

## Read range (2W ERP)\*

On plastic up to 20 m / 65 ft

## Applicable surface materials\*

Non-metallic surfaces

\* Read ranges are theoretical values that are calculated for non-reflective environment. Different surface materials may influence performance.



# **Mechanical specifications**

### Tag encapsulation

Scratch and bending-resistant engineering plastic

## **Background adhesive**

High performance acrylic adhesive specifically for low surface energy plastics

### Weight

1 g

## **Delivery format**

Single

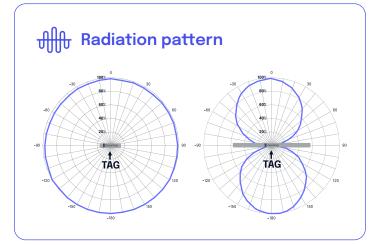
#### **Amount in box**

Inner box: 100 pcs Outer box: 1000 pcs

## **Tag dimensions**

122 x 18 x 2 mm / 4.80 x 0.71 x 0.08 in







# **Personalization options**

## **Pre-encoding**

Customer-specific encoding of EPC or user memory. Locking permanently or with password.

## **Customized printin**

Customer-specific layout including logo, text, numbers, barcodes etc.

# **Product Datasheet**

# **BEONTAG CARRIER TOUGH SLIM**





## **Environmental resistance**

## **Operating temperature**

 $-35^{\circ}$ C to  $+85^{\circ}$ C /  $-31^{\circ}$ F to  $+185^{\circ}$ F

#### **Ambient temperature**

-35°C to +85°C / -31°F to +185°F

#### IP classification

IP68, tested 5 hours in 1m deep water

#### **Washing resistance**

Tolerates industrial washing processes

#### **Chemical resistance**

No physical or performance changes in:

- · 168h Salt water (salinity 10%) exposure
- · 168h NaOH (10%, pH 13) exposure
- 168h Motor oil exposure
- 168h Sulfuric acid (10%, pH 2) exposure

#### Storage condition

1 year in +20°C / 50% RH (shelf life for adhesive)

#### **Expected lifetime**

Years in normal operating conditions

Values in the table are the best recommendations; resistance against environmental conditions depends on the combination of all influencing factors, exposure duration and chemical concentrations. Thus, product's final suitability for certain environmental conditions is recommended to be tested. Contact Beontag for more specific information.



## Installation instructions

**Beontag Carrier Tough Slim** polarization is along the longest dimension of the tag. This should be taken into account when linear reader antennas are used.

#### When selecting the location ensure the following

- · Select a smooth surface without uneven areas below the tag
- · Avoid touching the background adhesive

When mounting the label with its adhesive, clean and dry the surface for obtaining the maximum bond strength. Typical cleaning solvents are heptane for oily surfaces and isopropyl alcohol for plastics. Use reagent grade solvents since common household materials like rubbing alcohol frequently contain oils to minimize the drying effect on skin and can interfere with the performance of adhesive. Carefully read and follow the manufacturer's precautions and directions for use when working with solvents. Do not re-attach tags as adhesion will suffer.



Ideal application temperature is from  $+21^{\circ}\text{C}$  to  $+38^{\circ}\text{C}$  ( $+70^{\circ}\text{F}$  to  $+100^{\circ}\text{F}$ ), bond strength can be improved with firm application pressure and moderate heating up to  $+54^{\circ}\text{C}$  ( $+130^{\circ}\text{F}$ ). Application at temperatures below  $10^{\circ}\text{C}$  ( $50^{\circ}\text{F}$ ) is not recommended.

**Beontag Carrier Tough Slim** can also be attached mechanically with:

- · M3 screws
- · 3 mm pop rivets

In harsh conditions mechanical fixing is always recommended.

# **Product Datasheet BEONTAG CARRIER TOUGH SLIM**





Product number: 3004850

Product Name: **Beontag Carrier Tough Slim M780** 

For other versions, additional information and technical support please contact Beontag.

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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: beontag.com

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