

XSKIN THETA ROLL

Technical Specifications

- **RF protocol** IS0/IEC 18000-6C (EPC Gen2)
- **Frequency** 860-960 MHz (Global)
- **IC type**(chip)[1] NXP UCODE 9xm
- **User memory** 752/384 bits
- **EPC memory**[2] 128/496 bits
- **Write Cycles** 100,000 times
- **Data Retention** 20 years
- **Read range** off metal[3]
  Up to 26.25 ft (8 m) US
  Up to 19.69 ft (6 m) EU
- **Polarization** Linear

Key Features

+ **200°C:** high-temperature RFID labeling for specialty process environments
+ **Off-Metal:** for non-metal surfaces
+ **Printable:** roll format for high-volume deployment
+ **Customization:** configurable across chip, size, format, and encoding

Applications

- **Powder coating operations**
- **Paint shop workflows**
- **Composite curing processes**
- **Industrial autoclave workflows**
- **Battery production environments**
- **Medical devices and medical supplies**

Environmental Specifications

Temperatures

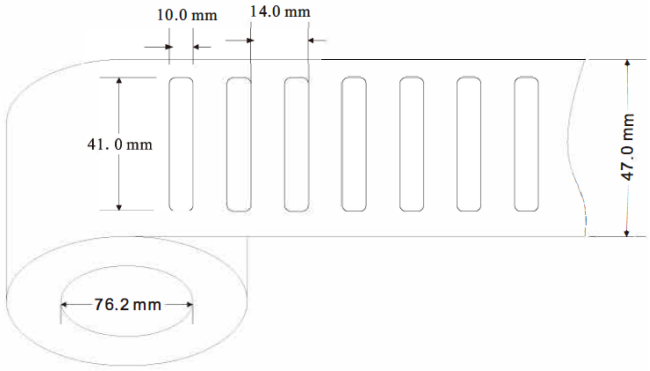
- Operational -40°C to +85°C
  -40°F to +185°F
- Survival -40°C to +200°C for 30 mins
  -40°F to +392°F
- Short-Cycle exposure up to 134°C (273.2°F) at 2.1 bar for 4 mins

- **Printer compatibility** ZEBRA (ZT411R), TSC (T6000e), SATO (CL4NX), POSTEK (TX3r).
- **Vibration** MIL-STD-810G
- **Warranty** 1 year

[1] The chip data retention is up to 20 years, based on chip operating under general environment conditions.
[2] EPC can be re-programmed, password protected, or permanently locked. TID is locked and unique at the point of manufacturing.
[3] Fixed reader. Actual read range may vary based upon use case and antenna power.

Physical Specifications

- **Material** PI-based construction with durable paper face stock
- **Dimensions (in)**[1] 1.61 x 0.39
- **Dimensions (mm)**[2] 41 x 10
- **Packaging** 2,500 pcs/roll



Mounting Systems

- Industrial adhesive

Installation Instructions

1. Clean the surface using Isopropyl alcohol, alcohol pad or equivalent solvent to ensure surface is free from dirt, dust, oil and misc, debris that may affect adhesion.

2. Peel a label off the release paper from the roll, ensuring not to touch the adhesive.

3. Place the label in desired tagging location and firmly apply even pressure to the label for 5 seconds.

4. Do not disturb the newly mounted label for at least 15 minutes to ensure proper adhesive seating.

[1] Tolerance: +/- 0.02; +/- 0.50
[2] Tolerance: H=0.04(+/- 0.004); H=1(+/- 0.100)

Industry Compliance

Order Information

XSKIN Theta Roll Global: X4110-GL011-U9xm

Customization Options (Subject to MOQ)

IC Chip: NXP UCODE 9xe(128 bits EPC), Impinj M830(128 bits EPC)

Service Bureau: Printing and encoding available

PET Inlay Construction: Suitable for single-process heat exposure up to 200°C for 30 mins

PET Formats: Dry inlay (60mm reel width) or Wet inlay (50mm reel width), with inner core diameter: 76.2mm

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