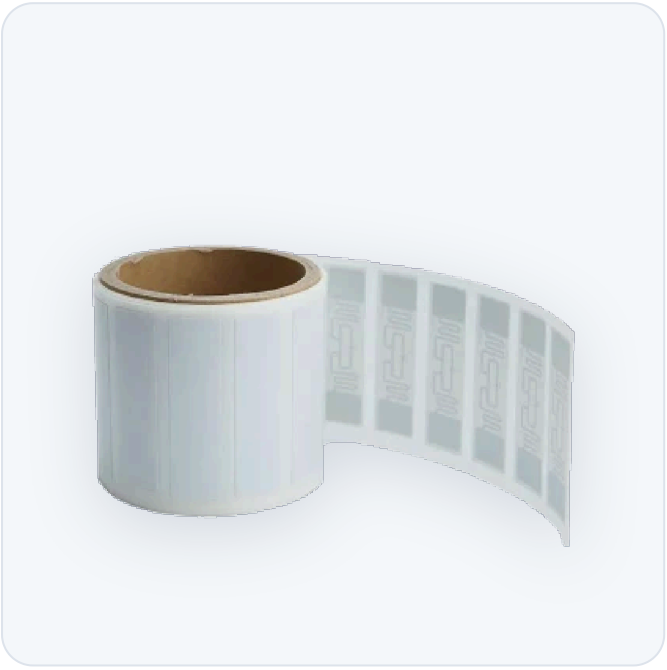
UHF RFID LABEL · WET INLAY

RFID label NML4418

High-Performance Non-Metal UHF Label · 44 × 18 mm



The **NML4418** is a thin, flexible UHF paper label for reliable identification on **non-metal surfaces** — cartons, plastics, textiles and general goods. Its optimised dipole antenna delivers a strong **read range up to 8 m** across the global 860–960 MHz band.

Built on your choice of six Impinj chips (M730 to M850), it prints and encodes cleanly and ships on-reel at 2,500 pcs — ready for high-volume retail, logistics and inventory tagging.

Up to 8 m	860–960	44×18 mm	100K
READ RANGE	MHZ GLOBAL	TAG SIZE	WRITE CYCLES

KEY FEATURES

Long read range
Optimised dipole antenna reaches up to 8 m on non-metal goods with a 1 W handheld.

Six selectable chips
Choose from Impinj M730, M750, M780, M781, M830 or M850 to match memory needs.

Print & encode ready
Bright white PET face takes thermal-transfer print, coding and data writing.

Region-flexible frequency
Global 860–960 MHz support, tuned for EU (865–868) or US (902–928) markets.

SELECTABLE IMPINJ CHIPS: M730 · M750 · M780 · M781 · M830 · M850

TECHNICAL SPECIFICATIONS

Full Datasheet

ELECTRICAL PARAMETERS

Air interface	EPC Global Class1 Gen2 / ISO 18000-6C
Frequency	Global 860–960 MHz
IC type	Impinj Series M730–M850, selectable
Application surface	Non-metal
Reading range	Up to 8 m (US standard, 1 W handheld)
IC life	100,000 write cycles
Data retention	10 years

MECHANICAL PARAMETERS

Tag size	44 × 18 mm
Antenna size	40 × 15 mm
Face material	PET / 80 g coated paper
Adhesive	Hot melt adhesive
Liner	Glassine
Quantity	2,500 pcs / roll (customizable)
Reel inner diameter	76.2 mm

ENVIRONMENT

Operating temp.	−20 °C to +80 °C
Storage temp.	−20 °C to +100 °C
Storage humidity	20–90% RH
Shelf life	More than 2 years

CHIP PARAMETERS (BITS)

Chip	EPC	TID	User
M730	128	96	0
M750	96	96	32
M780	496	96	128
M781	128	96	512
M830	128	96	0
M850	96	96	32

LABEL STRUCTURE

- **Face material** — PET / coated paper
- **Inlay** — antenna + Impinj chip
- **Hot melt adhesive**
- **Glassine paper liner**

APPLICATION AREAS

- Retail & apparel inventory
- Warehouse & supply chain tracking
- Asset & work-in-progress tagging
- Carton & parcel logistics labelling
- Library & document management
- Anti-counterfeiting & authentication

RFID·BG

Talk to Bulgaria's RFID team

End-to-end deployment: consulting, hardware, software, install & support.

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