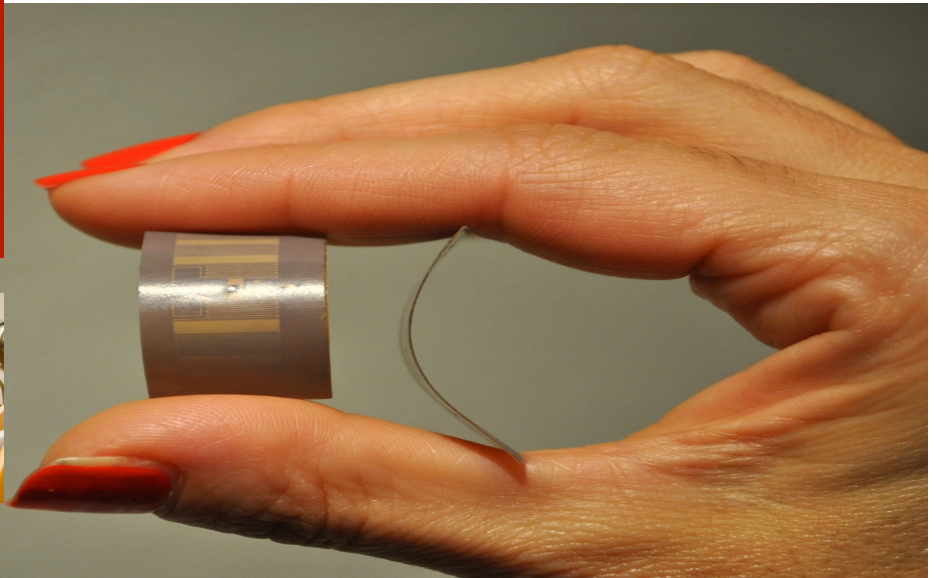


# Nova-Tag®

# Datasheet

Ultra-soft and Thin RFID Tag's, which resists to chemical, mechanical and thermal strains.



Nova-Tag® RFID Transponders engineered to resist to all constraints in commercial, industrial and security applications.

Nova-Tag® has been specially engineered to provide benefits and added value for various of applications, to manage current and future inventory management, tracking and security assets by reducing labor costs and improving workflow and efficiency.

## Technical specifications

### Inlays Processing

- UHF 860–960 MHz, ISO 18000-6C, EPC Class 1 Gen2
- NFC 13.56 MHz, ISO-14443 Type A
- HF 13.56, ISO-15693, 18000-3 Mode 1

### Passive RFID Chipset

- Impinji
- NXP
- STMicroelectronics
- EM Microelectronics

### Reading/Writing Range

- UHF up to 6 m / 19.7 ft
- NFC up to 0.5 m / 1.7 ft
- HF up to 0.5 m / 1.7 ft

### Sizes:

- Any size (depends on embedded RFID Inlay)

### Overall Thickness

- 0.3 – 2 mm / 0.11 – 0.79 in  
(depending on mechanical protection needed)

### Material Stack-Up

- Formulated Polymer Film (Top layer)
- RFID Inlay with IC (Middle layer)
- Formulated Polymer Film (Bottom layer)

### Chemical / Temperature Resistance

- High chemical resistance
- -100 to +220 °C / -148 to 428 °F

### Other important properties

- Non-combustible
- UV-resistant
- Non-magnetic (hospital environments)
- Autoclavable
- Hypoallergenic (safe for skin contact)
- Easily adapts to any form
- Not hamper movements
- Washable up to 95°C / 203°F

### Processing

- Insert
- Sew
- Patch (head-sealing press)

### Heat Sealing Properties

- Bonding temperature 120 – 140 °C / 248 – 284 °F, 5-10 sec., 5 bar pressure

### Laundry Performance

- Tunnel Washer
- Pre-Drying in tumbler
- Tunnel Finisher
- Sterilization
- Water Extractor Press 60 bars
- Washing cycles (under testing)

### Delivery

- Single units, in bulk packaging
- Rolls (upon request)

### Applications

- Apparel and other item-level retail
- Embedded applications
- Returnable units
- Industrial and manufacturing
- Government and Defense
- Security

We look forward to bringing our experience, support and solutions to your Nova-Tag® RFID project!

For further informations, please contact us:

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