RTI MANAGEMENT LABELS
RE-LOAD PRO 9026

SIVA
IoT

High temperature chemical washing resistant label for Returnable plastic containers that performs even when applied in close proximity to objects with high water content.

PHYSICAL SPECIFICATION

Face Stock
Printable white PET, resin ribbon is recommended

Label Sizes
90 x 26 x 0.2 mm | 3.54" x 1.02" x 0.01"

Adhesive
High performance acrylic adhesive provides high bond to most surfaces, including low surface energy plastics

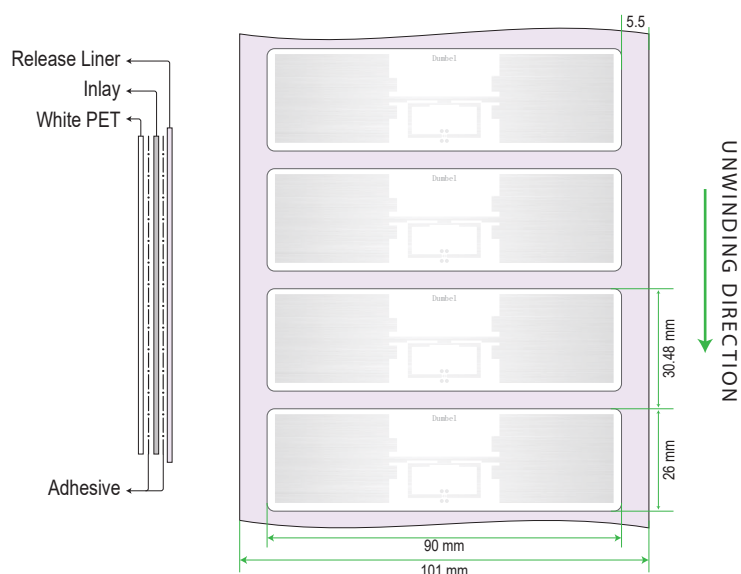### Delivery Format
2000 pcs on reel

Label Pitch
30.48 mm / 1.2"

Core Inner Diameter
76 mm / 3"

Weight
0.563 g

RF SPECIFICATION

Air interface protocol
EPC Global Class 1 Gen2 ISO 18000-6C

Operational frequency
Global 865-928 MHz

IC type*
NXP UCODE 9xe

Memory configuration
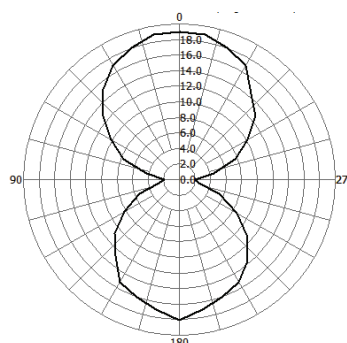EPC 128bit; TID 96bit

Read range (2W ERP)**
On Plastic Up to 21m/ 68.89ft | On Cardboard Up to 18m/ 59ft

Applicable Surface Materials
Non-metallic surfaces

RADIATION PATTERN

ENVIRONMENTAL RESISTANCE

Operating Temperature
-35°C to +80°C / -31°F to +176°F

Adhesive Service Temperature
-30°C to +80°C / -22°F to +176°F

Application Temperature
+10°C to +38°C / 50°F to +100.4°F

IP Classification
IP68, tested for 5 hours in 1m deep water

Washing Resistance
Tolerates industrial washing processes. Tested with water at 60° angle, 80-100 bar, at 80°C. Water flow rate 14-16 l/min.

Chemical Resistance
No physical or performance changes in:
- 168 h Salt water (salinity 10%) exposure
- 168 h Sulphuric acid (10%, pH2) exposure
- 168 h Motor oil exposure
- 24 h NaOH (10%) exposure
- 30 min Acetone exposure

Ideal Storage Condition
+22°C / 50% RH; 1 year

Expected Lifetime
Years in normal operating conditions

Release Liner
Inlay
White PET
Adhesive

UNWINDING DIRECTION

5.5
30.48 mm
26 mm
90 mm
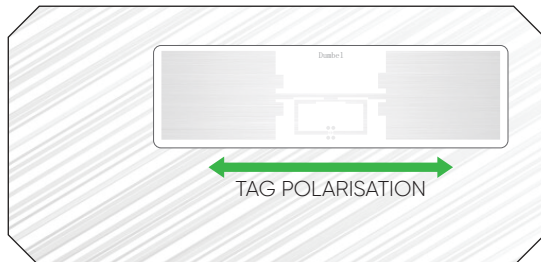101 mm

PERSONALISATION OPTIONS

Pre-encoding
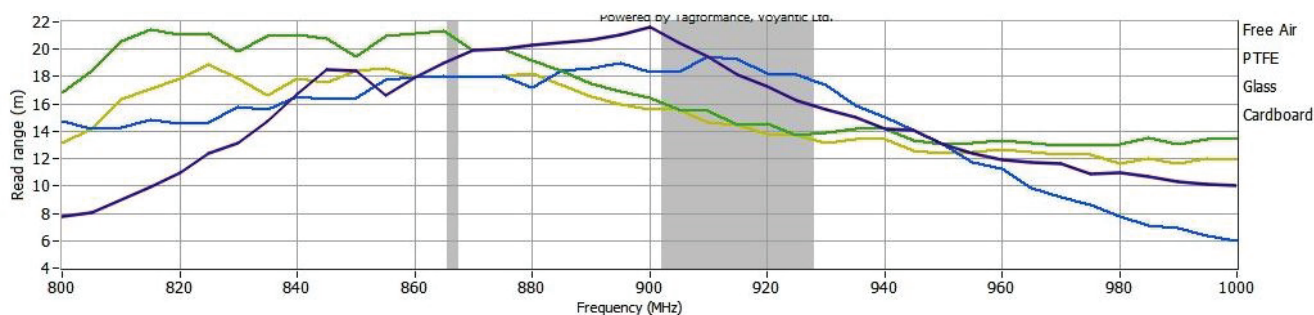- Customer specific encoding of EPC memory

Customised Printing
- Customer specific artwork including logo & text, numbers, barcodes etc.
- Offers optional transparent over laminate film to protect printed matter.

PRODUCT INSTALLATION

TAG POLARISATION

- Ensure the application surface is not uneven and is clean and dry, to obtain maximum bond strength. If required, use approved cleaning solvents to clean surface.
- Avoid touching the backside of the label while mounting it.
- Minimum bending diameter of the label is 50mm, Do not bend the label below the limit.

PRINTER COMPATABILITY

Compatible for printing and encoding using 4" & 6" wide industrial grade thermal transfer UHF printers. Sensor type: Gap

As tested on Zebra ZT400 series, SATO CL4 NX series Printronix T6000 series

For setup instructions and printer configurations contact iotsales@sivagroup.co

ORDER INFORMATION

Part Number
RF.RLP.9026.U9xe

Packaging
2000 Tags/Roll;
4 Rolls/Carton

READ RANGE GRAPH

* Other IC's available on request
** The indicated read range values are measured in our laboratory testing environment, where antennas with optimum directivity are used with maximum allowed operating power. Different surface materials and environments may exhibit different results.