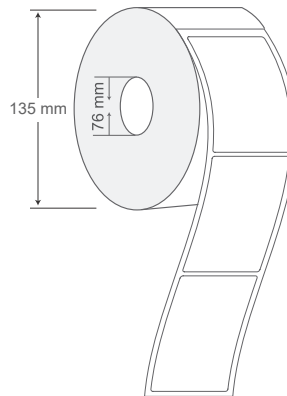




SIVA's Tyre Label is a specialized high performance label designed to apply on Tyres. It meets the toughest durability challenges of applying it on rubber surfaces. These labels can be used in WIP Management, logistics & supply chain, distribution, storage & point-of-sale.

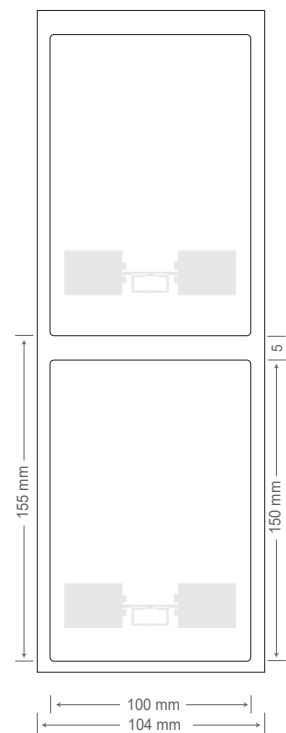
TYPICAL APPLICATIONS

- Warehousing
- Storage and supply chain of vehicle tyres



PHYSICAL SPECIFICATION

Face Stock	Printable White film
Label Sizes	100.0 x 150.0 x 0.2 mm / 3.95 x 5.90 x 0.01 in
Adhesive	High performance permanent adhesive
Weight	2.60 gms
Delivery Format	On reel
No. of Labels/ Reel	500 pcs
Label Pitch	155.0 mm / 6.10 in
Core Inner Diameter	76 mm / 3 in
Roll Outer Diameter	135 mm / 5.31 in



RF SPECIFICATION

Mode of Operation	Passive
Device Type	Class 1 Gen 2 Passive UHF RFID transponder
Air Interface Protocol	EPC Global Class 1 Gen 2 ISO 18000-6C
Operational Frequency	Global 860-960 MHz
IC Type*	NXP UCODE 8
Memory Configuration	EPC Size 96 - 128 Bits
Write Cycle Endurance	100,000
Data Retention	Upto 20 years
Applicable Surface Materials	Non-metallic surfaces
Read Range (On tyre) **	ETSI : upto 3.75 m FCC : upto 4.75 m

ENVIRONMENTAL RESISTANCE

Operating Temperature	-20°C to +70°C / -4°F to +158°F
Withstands Exposure To	95% humidity, 60°C × 100 h, 50% humidity, 80°C × 100 h
Peak Temperature	+100°C for 1 hr, +80°C for 100 hrs (Label remains securely attached with object. No physical or performance changes observed)
Adhesive Service Temperature	-20°C to +85°C / -4°F to +185°F
Recommended Application Temperature	+10°C to +38°C / 50°F to +100.4°F
Water Resistance	IP67
Chemical Resistance	No physical or performance changes in: - 168 h Salt water (salinity 10%) exposure - 168 h Motor oil exposure - 12 h NaOH (10%) exposure - 30 min Acetone exposure
Ideal Storage Condition	+23°C / 50% RH
Expected Lifetime	Years in normal operating conditions

PRODUCT INSTALLATION



- 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

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding of EPC

Customized Printing

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

ORDER INFORMATION

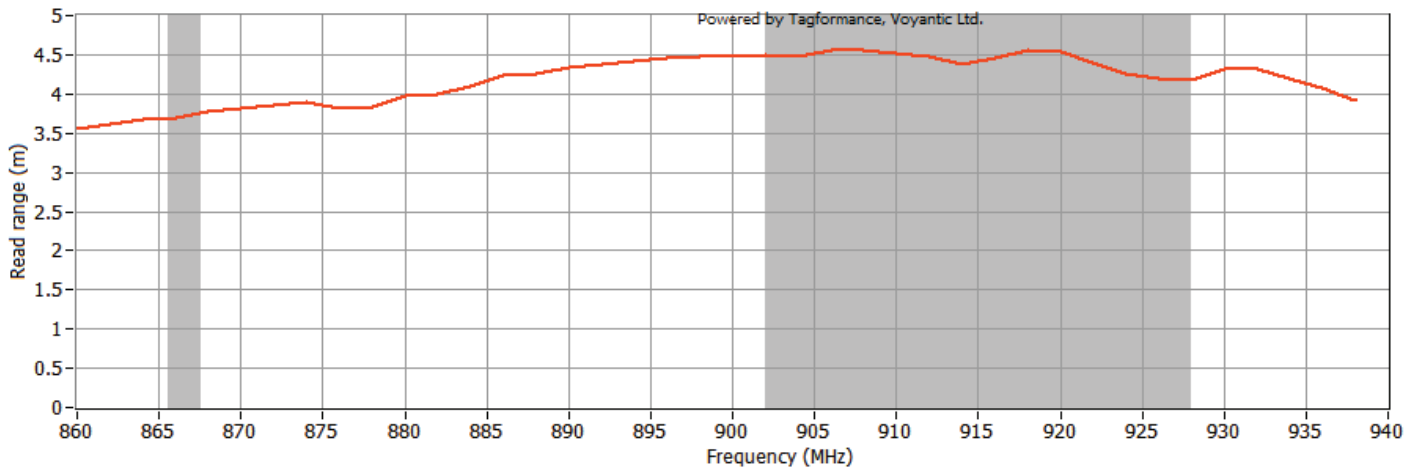
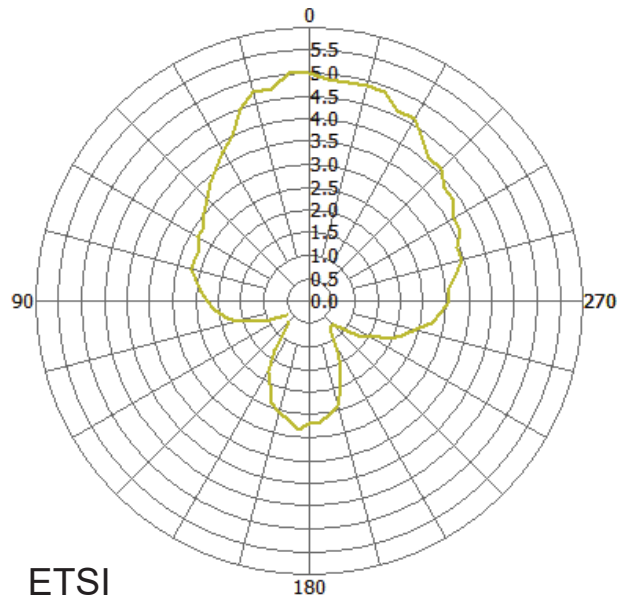
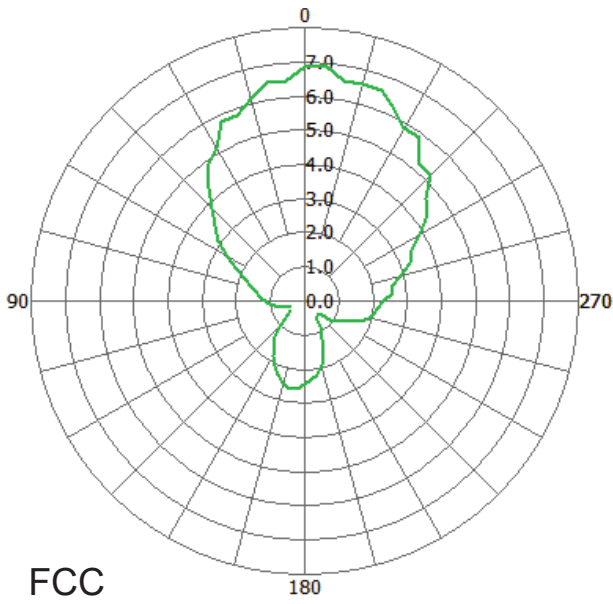
Part Number

- RF.Li.TT.Tyre.46

Roll Sizes

- 500 Labels per Roll / 4 Rolls per Carton

RADIATION PATTERN & 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.



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