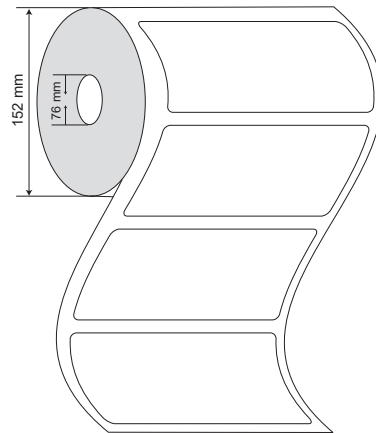


SIVA's Windshield TP is a non-transferable tamper-proof windshield RAIN (UHF) RFID label that has been developed especially for automatic vehicle identification applications. Made using high-quality materials, the label does not expand or contract with changes in temperature. The label is tamper-proof, meaning any attempt made to remove the label results in breakage, thereby making it impossible to transfer the label to another vehicle. Made using a unique label construction, it is supplied in roll form as finished labels. It can be encoded and printed with typical RAIN (UHF) RFID thermal transfer printers.

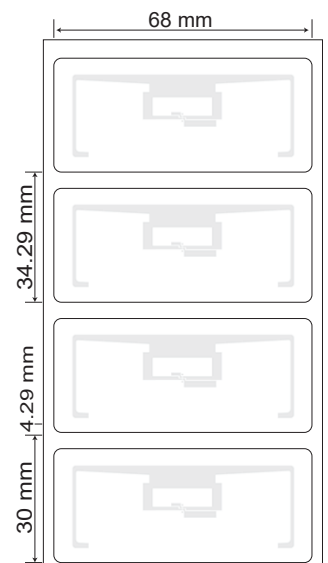
TYPICAL APPLICATIONS

- Vehicle Access Control
- Logistics Processes
- Electronic Toll Collection
- Official vehicle registration identification



PHYSICAL SPECIFICATION

Face Stock	Printable white PET resin ribbon is recommended
Label Sizes	68 x 30 x 0.2 mm 3.93 x 1.96 x 0.007 in
Adhesive	High performance permanent adhesive with excellent bonding to glass
Weight	1.180 gm
Delivery format	On reel
No. of Labels/ Reel	2000 pcs
Label Pitch	34.29 mm
Core inner diameter	76 mm / 3 in
Roll Outer diameter	152 mm / 5.98 in



RF SPECIFICATION

Mode of Operation	Passive
Device Type	Class 1 Gen 2 Passive UHF RFID transponder
Air interface Protocol	EPC global and ISO 18000-63 compliant, Gen2V2 compliant
Operational Frequency	Global 860-960MHz
IC Type*	Impinj M4QT
Memory Configuration	512 bits of user memory, 128 bits of EPC memory, and a serialized TID
Write Cycle Endurance	100,000
Data Retention	50 years
Read Frequency	ETSI: On Glass up to 11 m / 32.80 ft FCC: On Glass up to 10 m / 32.80 ft
Applicable surface materials	Glass

ENVIRONMENTAL RESISTANCE

Operating temperature	-20°C to +80°C / -4°F to +176°F
Withstands Exposure to	95% humidity
Peak Temperature	+150°C / 302°F for 1 min (Label remains securely attached with object. No physical or performance changes observed.)
Recommended Application Temperature	-40°C to +85°C / -40°F to +185°F
Water Resistance	IP67
Adhesive Service Temperature	-40°C to +85°C / -40°F to +185°F
Chemical Resistance	Resistant to chemical solvents and moisture
Ideal Storage condition	23°C to 100°C / 73.4°F to +212°F
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 adhesive side of the label while mounting it

PERSONALIZATION OPTIONS

Pre-encoding

- Customer specific encoding

Customized Printing

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

ORDER INFORMATION

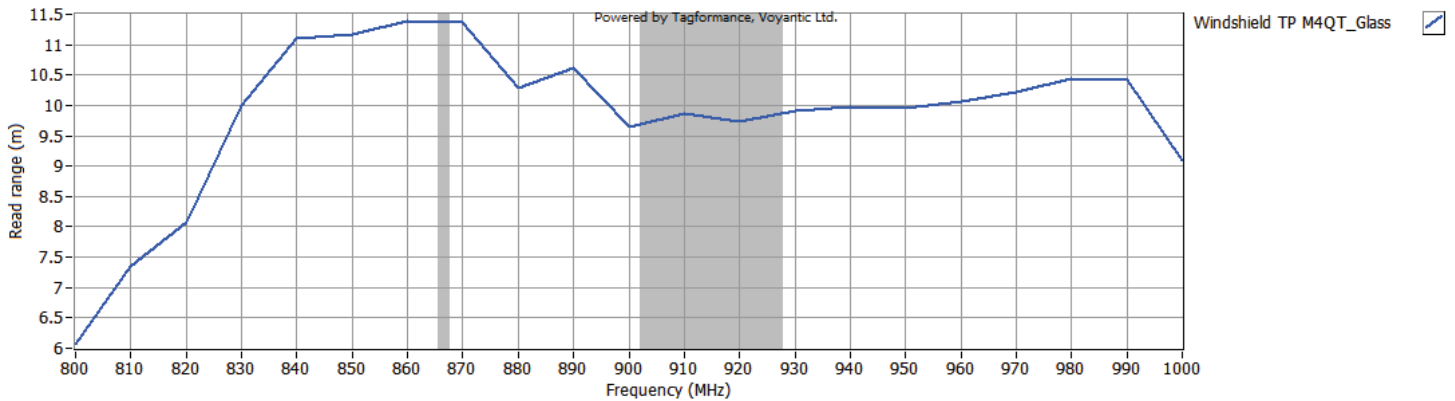
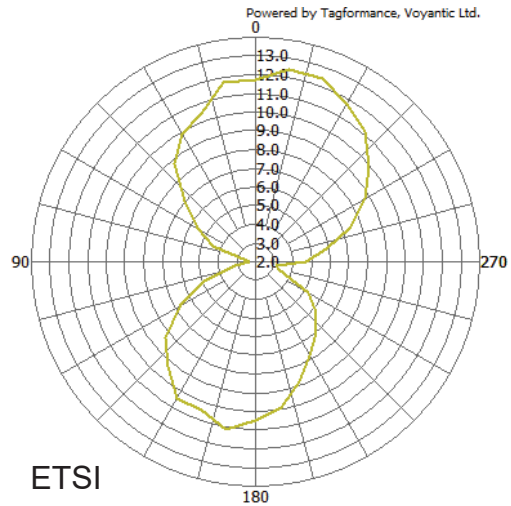
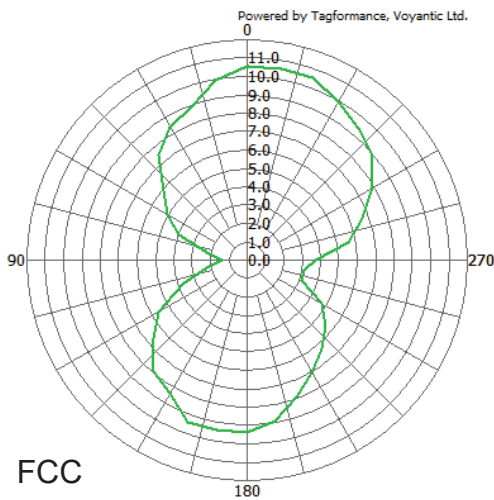
Part Number

- RF.LI.WS.TP.M4QT

Roll Sizes

- 2000 pcs 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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