



RFID Windshield Tag

High Temperature • RFID Product • Durable Product ID • Long Range RFID • RFID Labels

Technical Data Sheet

Part: #WF- SM-34

General Description

RFID Windshield Tag

- Excellent read range: over 30 ft on glass
- UV resistant materials reduce fading
- Custom print both sides
- Great for fleet/ vehicle tracking



Use the RFID Windshield tag to track vehicles going in and out of parking garages, car washes, etc. The RFID windshield tag's strong read performance makes it great for automating access control, adopting membership/ loyalty programs and more.

Versatile Construction

Simply affix the RFID Windshield tag onto glass surfaces. Its strong adhesive resists peeling in hot or cold conditions but can be easily removed without tearing. Or, to prevent the RFID Windshield Tag from being transferred to another vehicle, you can add a tamper- evident option with security slits. The tag will tear upon attempted removal.

Customize with text and graphics

Custom information can be printed on both sides of the Windshield Tag. You can also have variable information such as barcodes added to one side of the tag for tracking purposes. The Windshield Tag features inks and materials that resist fading and cracking.

Applications: parking facilities, vehicle tracking, fleet management, access control, car washes

Applications

Identification Labeling, High Value Asset Labeling, Asset Marking & Tracking, Vehicle/ Fleet Marking, Property management, Harsh Environments, Anti- Counterfeit

Material Description

Durable polyester

Custom printing and pre- programming options available

Dimensions	4" x 1.5" (11.5 cm x 3.8 cm)
Thickness	11 mil
UV Resistance	Very Good
Abrasion Resistance	Very Good



Test*	Temperatures and Duration	Results
Maximum Temperature	Long- term at 10 hr: 302°F (150°C)	No effect on tag. Tag remained the same in appearance and RFID performance/function. There was no sign of peeling, tearing or destruction. The tag read normal after the tests. *Test is not limiting.
	Standard at 5 min: 340°F (171°C)	
	Short- term at 90 sec: 360°F (180°C)	
Minimum Temperature	-40°F (-40°C)	
Temperature Cycling	The tag was cycled to 360°F at equilibrium for five times. Between each cycle, it was air cooled to room temperature and read with an RFID reader.	

RFID Performance

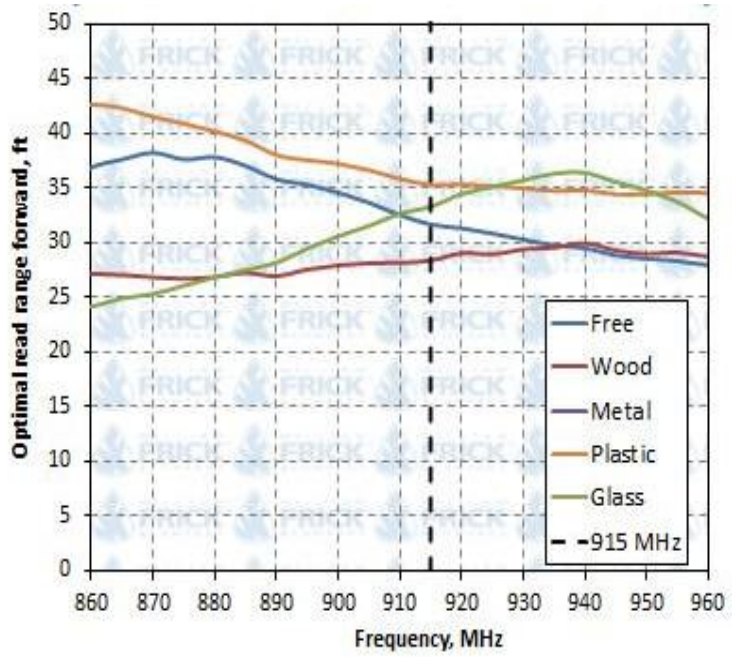
RFID Protocol	EPC Class 1 Gen 2; ISO18000-6C
Tag Type	Passive Read/ Write
Frequency Range	860-960 MHz (Global)
Memory	Up to 512 bit

Tested Polarization:

Tag performance was experimentally measured in an anechoic chamber and a known set of experimental variables. The antenna used for measurements was linearly polarized and of monostatic configuration. The direction of tested polarization is as follows.



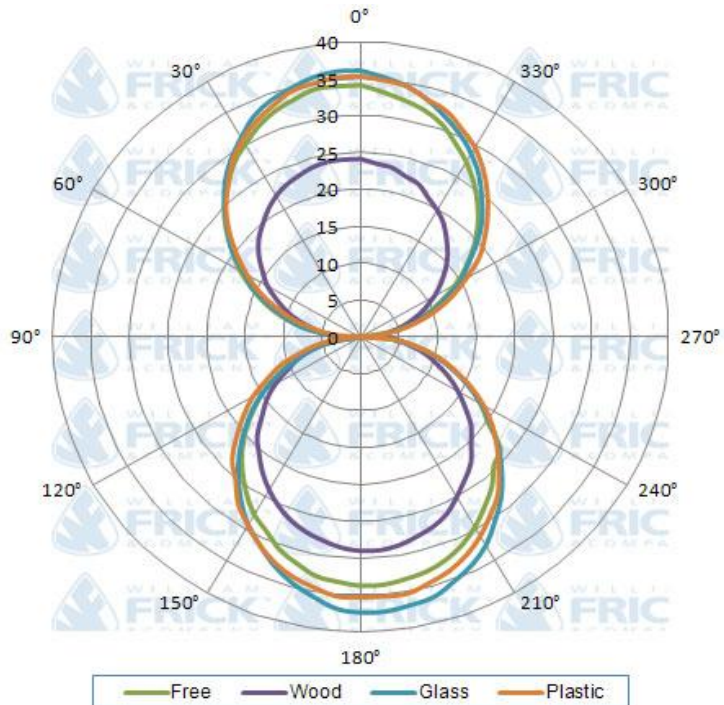
Optimal Read Range* on Different Material Surfaces:



*Tag performance was measured free of material influence, on a dry wood slab, standard steel slab, standard window glass, and standard thermoplastic.

Please note: Actual read ranges may differ depending on conditions such as type of reader, reader power setting, environment, tag placement, hardware, etc.

Horizontal Orientation vs Optimal Read Range (ft)* Forward at 915 MHz



*Tag performance was measured free of material influence, on a dry wood slab, standard window glass, and standard thermoplastic.



Please note: Actual read ranges may differ depending on conditions such as type of reader, reader power setting, environment, tag placement, hardware, etc.

Adhesive

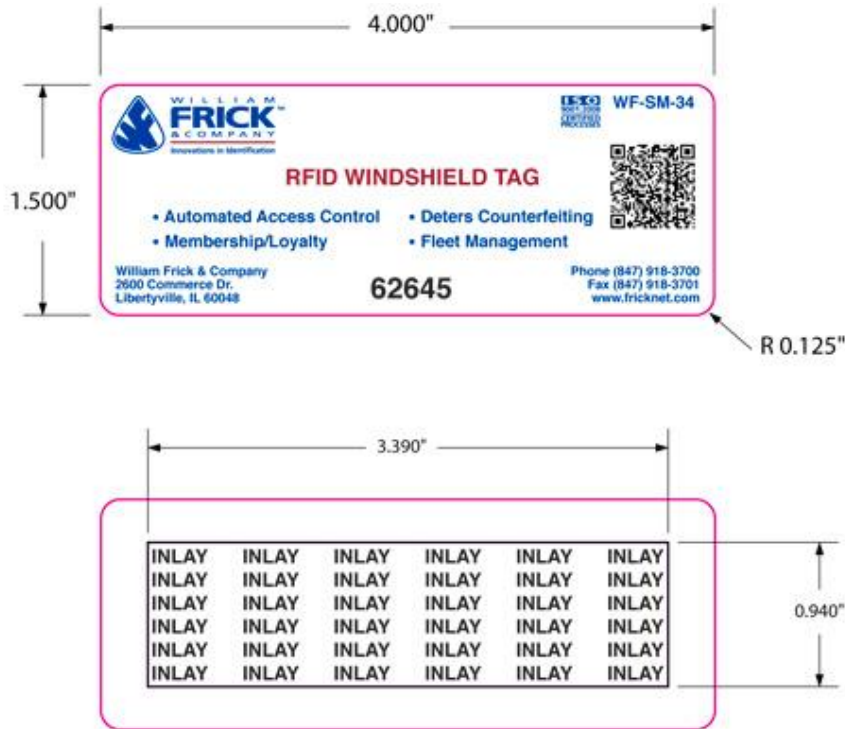
Acrylic

Minimum Application Temperature	40°F (4.4°C)
Thickness	0.8 mil
Adhesion to Stainless Steel	Excellent
Adhesion to Glass	Excellent
Adhesion to HSE plastics	Very Good
Adhesion to LSE plastics	Good

Shelf life

Stored 72°F(22°C) / 50% relative humidity out of direct sunlight

2 years



ALL DIMENSIONS ARE IN INCHES
UNLESS OTHERWISE SPECIFIED

TOLERANCES

3 PLACE DECIMAL + OR-.005"

2 PLACE DECIMAL + OR-.02"

1 PLACE DECIMAL + OR-.1"

MAX SURFACE ROUGHNESS

ALL MACHINED SURFACES

EXCEPT AS NOTIFIED

BREAK SHARP EDGES AND CORNERS

.010" MAX

Contact No.

William Frick & Co.

www.fricknet.com

DWG.

Engr.

Chk.

Aprvd.

Size.

RFID Windshield Tag

DWG No.

WF- SM-34

Rev.

