



# Tamper-proof vehicle identification. Without compromises.

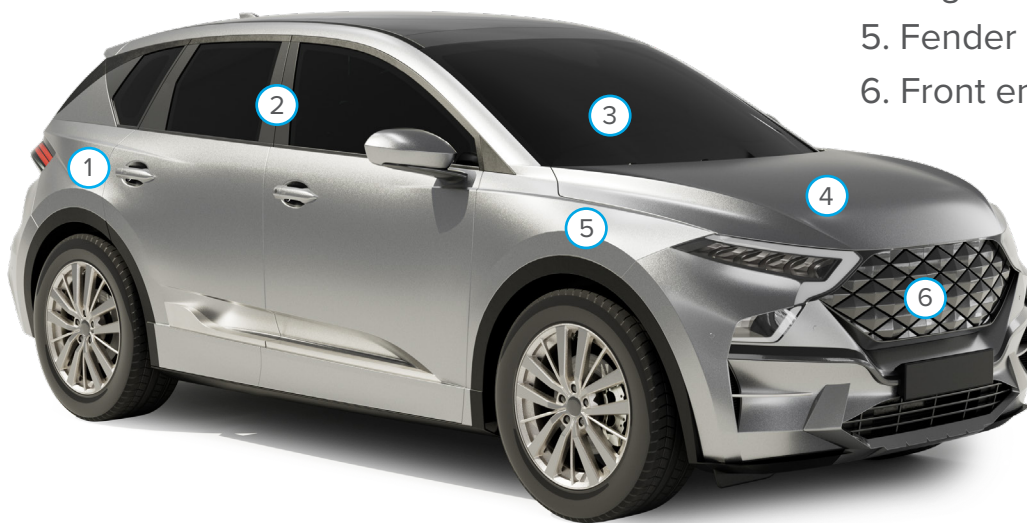


Our Security Labeling Solutions for the Automotive Industry



# Market leader in Security Labeling

1. Fuel filler cap
2. Door pillars
3. Dashboard
4. Engine
5. Fender
6. Front end



**Process optimization using state-of-the-art laser technology for labeling solutions**

Whether it is VIN, certification, service, security, or warning and instruction information, a variety of labeling systems are required throughout a vehicle. Some have to be absolutely tamper-proof and others have to resist extreme external influences, e.g. in the engine area. We are the experts in theft-relevant security labeling offering a 100% tamper and forgery-proof solution with the highest design flexibility and faithful reliability.

## Automotive Security Labels

Secure application of the Vehicle Identification Number (VIN / ID label) and other certification labels to the vehicle as well as anti-theft parts marking prior to its supply to the market, is critical to combating vehicle crime. Our laser labels are also available with customer-specific visible and hidden security features integrated into the labels to maximize security against tampering.



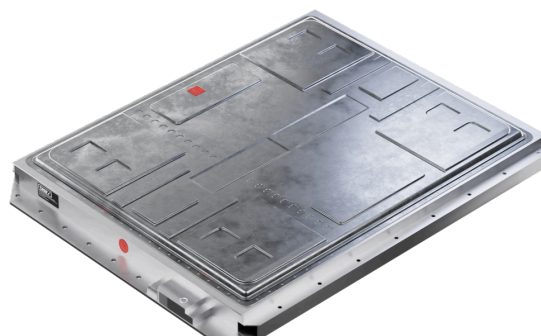
## Automotive Warning and Instruction Labels

Tire pressure and fuel information, engine compartment service instructions, as well as airbag, engine and airconditioning warnings are only some examples of the wide range of labels in use throughout the vehicle. Our warning and instruction labels contain user information; they caution the driver against safety hazards and provide service instructions. The cross-linked acrylic label material is ideally suited for a long-lasting and highly resistant application.



## EV Battery Labeling

In today's EV batteries, security labels are used for very critical information such as nameplates and battery identification numbers. These labels need to meet the strict requirements of the automotive industry as they must have high reliable adhesion on demanding surfaces and good legibility until the end of a vehicle's life time. Our tesa® battery labels meet these high standards and can be used with customer-specific visible and hidden security features.



# Basic product features

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## High marking speed

Inline operation: Marking and cutting are achieved by laser in one step, which makes it possible to realize any desirable label variation and format using only one material.

Computer Aided Manufacturing: Highest flexibility and quick adaptation of format and contents, e.g. car model relevant data, different languages, sequential serial numbers.



## Excellent marking precision

High contrast and resolution support the realization of micro marking, e.g. 2D bar codes and ensures clear information appearance and easy and correct readability for example by barcode scanner.



## Highly resistant and durable labeling

Highly durable and resistant against thermal, chemical and mechanical influences for secure traceability over entire vehicle lifetime. High Heat Resistant (HHR) (1600h @ 150°C) is suitable for all known applications AND is necessary for applications directly on engine or transmission (F-type label) as requested by GB/T 25978.



## High bonding on demanding surfaces

A special acrylic adhesive system improved for rough and low surface energy (LSE) surfaces, which leaves UV-footprint.



## Safety – global use without restrictions

We meet international and industry-specific standards and guidelines at any time.  
We guarantee that our products are compliant with EU REACH regulation (EC) No 1907/2006.



# Security features

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## Anti-tamper performance

Label is destroyed upon any attempt of removing and tampering and leaves a visible trace (damage of information and label); no label transfer possible.



## Evidence of label removal

UV footprint: A UV fluorescent adhesive permanently marks the substrate, leaving a detectable trace indicating label removal or tampering.



## Unique identifier for verification against cloning

The material is available with a unique customer-specific, forgery-proof watermark design that is embedded or embossed into the material as prove of originality.



## Higher protection against cloning

Hidden customer-specific micro scripting maximizes security. Micro-script is part of the embedded or embossed watermark offering a very high counterfeiting security.

# Our Product Assortment

	tesa® 6950	tesa® 6957	tesa® 6957	tesa® 6940	tesa® 6940	tesa® 6947	tesa® 6947
Category	High Heat Resistant	High Heat Resistant  Customer Watermark	High Heat Resistant  Customer Watermark	Rapid	Rapid	Rapid	Rapid
Backing	Two-layer acrylic	Two-layer acrylic	Two-layer acrylic	Two-layer acrylic	Two-layer acrylic	Two-layer acrylic	Two-layer acrylic
Available colors top layer	Black matt/ White	1. Black glossy/ White  2. Black matt/ White	1. Black glossy/ White  2. Black matt/ White	1. Black glossy/ White  2. Black matt/ White	White glossy/ Black	1. Black glossy/ White  2. Black matt/ White	1. Black glossy/ White  2. Black matt/ White
Product Version	3	3	1	3	3	3	6
Thickness w/o release paper	95 µm	95 µm	127 µm	95 µm	118 µm	95 µm	140 µm
Standard adhesive				●	●		
UV fluorescent adhesive	●	●	●	●		●	●
LSE UV fluorescent adhesive	●	●	●			●	●
Tamper evidence	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Customer watermark, micro sampling		●	●			●	●
Heat resistance	150 °C / 2300hrs  250 °C / 5 min	150 °C / 2300hrs  250 °C / 5 min	150 °C / 2300hrs  250 °C / 5 min	120 °C / 1600hrs  250 °C / 5 min	120 °C / 1600hrs  250 °C / 5 min	120 °C / 1600hrs  250 °C / 5 min	120 °C / 1600hrs  250 °C / 5 min
High-speed marking up to 4,000 mm/s	●	●	●	●	●	●	●
Suitable laser hardware	Nd:YAG, Co <sub>2</sub>	Nd:YAG, Co <sub>2</sub>	Nd:YAG, Co <sub>2</sub>	Nd:YAG, Co <sub>2</sub>	Nd:YAG, Co <sub>2</sub>	Nd:YAG, Co <sub>2</sub>	Nd:YAG, Co <sub>2</sub>
GB norm conform	●	●	●	● (w/o F-type)	● (w/o F-type)	● (w/o F-type)	● (w/o F-type)



Our company is focused on international quality, environmental, and occupational safety standards.

Please find more information regarding our certifications at:  
[www.tesa.com/certifications](http://www.tesa.com/certifications)