



# tesa<sup>®</sup> 6947 PV6 Black Glossy FPA



## Product Information

Forgery-proof, high-speed laser markable film with customized watermark

## Product Description

tesa<sup>®</sup> 6947 PV6 black glossy/white is a premium, two-layer laser markable film with UV-fluorescent acrylic adhesive. Featuring an embedded, tamper-proof customized watermark as proof of originality, it meets the Chinese GB/T 25978 standard for A to E-Type labels. Its self-destructible construction ensures the label is destroyed and leaves a visible trace if tampered with.

A laser removes the top layer to create precise images and cuts labels to any size and format in one step, enabling flexible customization. The UV-fluorescent adhesive leaves an UV-detectable trace on most surfaces, proving manipulation or label removal, and meets legal automotive related requirements, GB/T 25978 (P.R.C.) and NHTSA §541.5 (USA).

Simplify your vehicle marking process with our reliable, efficient, and versatile laser-markable films for on-demand label creation.

## Product Features

- On-demand label creation, customizable with model-specific data, languages, serial numbers, and QR codes.
- Unique, forgery-proof, customer-specific watermark to prove originality
- High energy absorbing top layer for reduced dust and fast marking ( $\leq 4,000$  mm/sec)
- Self-destructible with high-performance adhesive to prevent reuse and manipulation; irremovable without destruction on most surfaces
- UV fluorescent adhesive permanently marks substrate, indicating label removal or tampering
- Long-lasting vehicle identification resistant to wear, weather, and chemicals throughout the vehicle lifecycle
- Excellent long-term legibility with irreversible laser marking, keeping critical information clear, readable, and compliant over time
- Compliant to GB/T 25978 (P.R.C.) A to E-Type labels

## Application Fields

Our laser-markable films are ideal for secure theft- and certification-relevant vehicle marking. Perfect for identification and certification labeling, laser marking accommodates model-specific data, languages, serial numbers, and QR codes with high flexibility. The product design prevents unauthorized reuse and manipulation, ensuring compliance and traceability throughout the vehicle's lifecycle. tesa laser-markable films are used for securely and efficiently marking vehicle identification numbers (VIN), certification labels, and theft-relevant parts. Combined in a label-set also used for warning and instruction labels, e.g. tire and loading labels, caution or emission labels.



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### Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

### Product Construction

• Backing	Acrylic film	• Total thickness	140 µm
• Type of adhesive	acrylic	• Adhesive weight	35 g/m <sup>2</sup>
• Type of liner	coated paper	• Weight of liner	120 g/m <sup>2</sup>

### Properties/Performance Values

• Ageing resistance (UV)	very good	• Shelf life time	12 months
• Chemical Resistance	very good	• Suitable laser	CO <sub>2</sub> , Nd:YAG, Yb:YAG
• Frost resistance	-40 °C	• Tamper evidence	yes
• Humidity resistance	very good	• Temperature resistance long term	120 °C
• Peel off force from liner	0,5-10	• Temperature resistance short term	250 °C

### Adhesion to Values

• Steel	1.8 N/cm
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### Storage Conditions

#### Storage Conditions

Original packaging excluding exposure of tapes to light and heating source

Storage of rolls in a horizontal position

Ideal storage at standard room temperature and rel. humidity according ISO 554

Refrigerated tapes need to be reconditioned prior to their use. An application below 10°C must be avoided as this may not provide sufficient immediate bonding

After opening the packaging, the tape shall be used as soon as possible



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Product Information

## Additional Information

6947 series is only available for automotive customers.

## Disclaimer

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For latest information on this product please visit <http://l.tesa.com/?ip=06947>