

tesa® 6947 PV6 Black Glossy FPA



Product Information

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

Product Description

tesa® 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 ²
• Type of liner	coated paper	• Weight of liner	120 g/m ²

Properties/Performance Values

• Ageing resistance (UV)	very good	• Shelf life time	12 months
• Chemical Resistance	very good	• Suitable laser	CO ₂ , 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

tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa® product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.



For latest information on this product please visit <http://l.tesa.com/?ip=6947BKA6>