

tesa® 6940 PV3 Black Glossy FPA



Product Information

6940: Tamper-proof, high-Speed laser markable film

Product Description

tesa® 6940 PV3 black glossy/white is a premium, two-layer, high-speed laser markable film with acrylic adhesive. Its self-destructible product 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 the label to size in one step, which makes it possible to realize any desirable label variation and format. Simplify your product marking process with our reliable, efficient, and versatile laser-markable films for on-demand label creation.

Product Features

Product Features Auto 6930, 6940, 6947, 6950

- 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 substrates
- 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

Application Fields

Our laser-markable films are designed for secure and tamper-evident product identification throughout the entire product lifetime.

They enable the marking of model-specific data, serial numbers, languages, and QR codes while preventing unauthorized reuse and manipulation.

Laser marking offers maximum flexibility and allows quick adaptation of format and content. High contrast and excellent marking precision ensure reliable readability of even the smallest characters, numbers, symbols, and 2D codes by both humans and scanning devices.

Typical applications include identification and certification labels for medical devices, electronics, industrial equipment, vehicles, and intelligent data carrier systems for in-process steering.

- Very fast marking is achieved in conjunction with high-speed laser hardware
- High contrast and excellent marking precision
- Very resistant to heat, abrasion and chemicals
- Tamper Evident: Manipulation leaves visible trace
- Not removable without destruction of the label
- Flexible formatting and label design: marking and cutting by the laser
- Efficient: replaces a multitude of pre-made labels

For latest information on this product please visit <http://l.tesa.com/?ip=6940BKA3>

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Product Information

Application Fields

- Just-in-time production reduces storage needs

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 | • Type of liner | coated paper |
| • Type of adhesive | acrylic | • Weight of liner | 120 g/m ² |

Properties/Performance Values

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

Additional Information

6940BK3: 6940 PV3 black glossy/ white: Adhesive 25g/m², thickness 95µm

Erhältliche Formate: 120 mm x 300 m und 100 mm x 300 m

Disclaimer

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For latest information on this product please visit <http://l.tesa.com/?ip=6940BKA3>