



tesa® 6940 PV3 silver glossy/ black



Product Information

High-speed laser markable film

Product Description

tesa® 6940 PV3 silver glossy/black is a 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 an image and cuts the label to size in one step, which makes it possible to realize any desirable label variation and format. Simplify the process of product marking with our reliable and efficient laser-markable films for on-demand label creation.

Product Features

- High quality silver glossy surface
- High energy absorbing top layer for reduced dust and fast marking ($\leq 5,000$ mm/sec)
- Laser markable film for quick, customizable labels with flexible designs including model-specific data
- Self-destructible construction and high performance adhesive preventing reuse and manipulation; irremovable without destruction
- Long-lasting product identification resistant to wear, weather, and chemical exposure throughout the product lifecycle

Application Fields

Our laser-markable films are ideal for applications requiring secure product marking. They are perfect for identification and certification labeling with model-specific data, languages, serial numbers, and QR codes. This prevents unauthorized reuse and manipulation, ensuring compliance and traceability throughout the product's lifecycle.

Key benefits:

- Instant, single-step label creation and customization
- Elimination of pre-made labels
- Excellent long-term legibility with irreversible laser marking, keeping information clear, readable, traceable, and compliant over time

Potential applications span various industries, providing reliable and secure labeling solutions for both identification and certification needs:

- Tamper-evident identification labels for products like medical equipment, food scales, semiconductor plates, phones, tablets, industrial machinery, and vehicles.
- Data carrier systems for intelligent in-process steering.



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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	• Adhesive weight	25 g/m ²
• Type of adhesive	acrylic	• Thickness of tape	110 µm
• Type of liner	coated paper	• Weight of liner	122 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	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

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- 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 to 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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Additional Information

Available formats: 120mm x 300m and 100mm x 300m

Disclaimer

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