



tesa® 6940

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 an acrylic adhesive. The brittle product construction ensures that the label is destroyed upon any attempt of removing and tampering and leaves a visible trace (damage of information and label).

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. The top layer allows for high marking speed (up to 4000mm/sec.).

Product Features

- Marked irreversible by laser with excellent long-term legibility by the human eye or scanning devices
- High contrast and marking precision support the realization of even the smallest letters, numbers and symbols, even 2D-bar codes (data matrix, QR codes)
- Manipulation leaves visible trace (damage on information and label) to prevent re-using
- Just-in-time production replaces a multitude of pre-made labels and reduces storage needs

Application Fields

Used as a tamper evident identification label over the entire lifetime of a product and as a data carrier system for intelligent in-process steering.

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 material	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



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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 duration	120 °C
• Peel off force from liner	0,5-10	• Temperature resistance short term duration	250 °C

Adhesion to Values

- steel 1.8 N/cm

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 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

Disclaimer

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