



# tesa<sup>®</sup> 6940 Rapid Laser-Label



## Product Information

High-Speed markable and self-adhesive

## Product Description

tesa<sup>®</sup> 6940 is a double layer, brittle acrylic film. 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.

This high performance product is used as a tamper evident identification label over the entire lifetime of a product and also as a data carrier system for intelligent in-process steering.

(black: up to 4000mm/ sec., yellow: up to 1000mm/sec).

Available in: black (glossy) and yellow

## Product Features

- The use of a high-speed laser enables a considerably quick marking.
- The backing is highly resistant against chemicals, abrasion, temperature and ageing.
- The adhesive system consists of a resin modified acrylic suitable even for low energy surfaces.

## Application Fields

- 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
- Just-in-time production reduces storage needs

For latest information on this product please visit <http://l.tesa.com/?ip=06940>



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

### Properties/Performance Values

- |                             |           |                                     |                                  |
|-----------------------------|-----------|-------------------------------------|----------------------------------|
| • Ageing resistance (UV)    | very good | • Suitable laser                    | CO <sub>2</sub> , 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 | 270 °C                           |
| • Peel off force from liner | 0,5-10    |                                     |                                  |

### Storage Conditions

#### Storage Conditions

23°C, 50% RH, stored in original box

### Additional Information

Standard Dimensions:

6940 PV6 black: width 100mm and 120mm, length 200m

6940 PV3 yellow: width 120mm, length 300m

Assortment and Technical Data:

6940 PV6 black/ white glossy: Adhesive 35g/m<sup>2</sup>, thickness 140µm without Liner. Color code: 04

6940 PV3 yellow/ black: Adhesive 25g/m<sup>2</sup>, thickness 105µm without Liner. Color code: 17, close to RAL 1021

PV6 foil is thicker and more stiff than PV3 material and beneficial in handling in certain cases.

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**Additional Information**

Please note: Color yellow has a limited resistance to UV. We recommend their suitability for outdoor applications should be tested before use. For assistance and advice please contact your tesa consultant.

### Disclaimer

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