

# tesa® 6940 Rapid Laser-Label

High-Speed markable and self-adhesive

## PRODUCT INFORMATION

### Product Description

tesa® 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. 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.

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.

The use of a high-speed laser enables a considerably quick marking.  
(black, red and blue: up to 4000mm/ sec., yellow: up to 1000mm/sec).

Available in: black (glossy), red, yellow and blue

### Main Application

- 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 removeable 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

### Technical Data

■ Backing material	acrylic	■ Type of liner	coated paper
■ Tamper Evident	yes	■ Weight of liner	120 g/m <sup>2</sup>
■ Type of adhesive	acrylic	■ Peel off force from liner	2-10 N/cm
■ Adhesion to steel >	1.8 N/cm		

### Properties

■ Temperature resistance short term	270 °C	■ Ageing resistance (UV)	++
■ Temperature resistance long term	120 °C	■ Suitable Laser	CO <sub>2</sub> , Nd:YAG, Yb:YAG
■ Frost resistance to -	50 °C	■ Printability	+
■ Humidity resistance	++	■ Storage conditions	23°C, 50% RH, stored in original box
■ Resistance to chemicals	++		

Evaluation across relevant tesa® assortment: ++ very good, + good, o medium, - low

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#### Additional Info

##### Standard Dimensions:

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

6940 PV3 red, yellow, blue: 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 red/ white: Adhesive 25g/m<sup>2</sup>, thickness 90µm without Liner. Color code: 19, close to RAL 3001/ Pantone 1807 C

6940 PV3 yellow/ black: Adhesive 25g/m<sup>2</sup>, thickness 105µm without Liner. Color code: 17, close to RAL 1018/ Pantone Yellow C

6940 PV3 blue/ white: Adhesive 25g/m<sup>2</sup>, thickness 90µm without Liner. Color code: 11, close to RAL 5002/ Pantone 2736 C

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

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