



# tesa<sup>®</sup> 6947 Laser-Label

## Product Information



High-Speed markable and fraud-resistant

## Product Description

tesa<sup>®</sup> 6947 is a double layer, brittle acrylic film with watermark. Customized and fraud-resistant information, such as company logo, is permanently embedded in the backing. 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 up to 4000mm/ sec.

Available in: black

## Product Features

- The use of a high-speed laser enables a considerably quick marking up to 4000mm/ sec.
- 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

- Customized Watermark embedded in the backing
- 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

## 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> |

For latest information on this product please visit <http://l.tesa.com/?ip=06947>



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## Product Information

### 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 -40 °F	• Temperature resistance long term	120 °C 248 °F
• Humidity resistance	very good	• Temperature resistance short term	250 °C 482 °F
• Peel off force from liner	0,5-10		

## Storage Conditions

### Storage Conditions

23°C, 50% RH, stored in original box

## Additional Information

Dimensions: Customer specific

Standard Width: 100mm or 120mm. Length: 170-300m

(Length 6947 PV6: max. 200m)

Assortment and Technical Data:

6947 PV3 black/ white glossy: Adhesive 25g/m<sup>2</sup>, Thickness 95µm/3.7 mils without Liner. Color code: 04

6947 PV3 black/ white matte: Adhesive 25g/m<sup>2</sup>, Thickness 95µm/3.7 mils without Liner. Color code: 28

6947 PV6 black/ white glossy: Adhesive 35g/m<sup>2</sup>, Thickness 140µm/5.5 mils without Liner. Color code: 04

6947 PV6 black/ white matte: Adhesive 35g/m<sup>2</sup>, Thickness 140µm/5.5 mils without Liner. Color code: 28

To fulfill our customers' requirements for different applications and substrates the tesa<sup>®</sup> 6947 series is available in different product variants. Our aim is to fully understand your application in order to provide the right product recommendation. Our technical support is available upon request.

Optional: UV-Footprint adhesive (MU49):

tesa<sup>®</sup> 6947 MU49 is equipped with a special acrylic adhesive system, which leaves an UV-detectable trace ("UV-Footprint"). This special variant is available upon request.

Optional: LSE adhesive with UV-Footprint (MU56):

tesa<sup>®</sup> 6947 MU56 is equipped with a special acrylic adhesive system improved for rough and low surface energy (LSE) surfaces, which leaves an UV-detectable trace ("UV-Footprint"). This special variant is available upon request.



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## Disclaimer

tesa<sup>®</sup> products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All information and recommendations are provided to the best of our knowledge on the basis of our practical experience. Nevertheless tesa SE can make no warranties, express or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. Therefore, the user is responsible for determining whether the tesa<sup>®</sup> product is fit for a particular purpose and suitable for the user's method of application. If you are in any doubt, our technical support staff will be glad to support you.



For latest information on this product please visit <http://l.tesa.com/?ip=06947>