

# tesa® 6931 Laser-Label



## Product Information

### Color-Change marking

tesa® 6931 is a 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 as well as a data carrier system for intelligent in-process steering. Marking is achieved by laser-activated color pigments embedded in the backing.

### Main Application

- Precise and resistant marking
- 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
- High marking speed in conjunction with high-speed laser hardware

### Technical Information (average values)

The values in this section should be considered representative or typical only and should not be used for specification purposes.

#### Technical Data

• Backing material	acrylic	• Adhesive weight	25 g/m <sup>2</sup>
• Tamper Evidence	Yes	• Type of liner	coated paper
• Peel off force from liner	2-6 cN/cm	• Weight of liner	65 g/m <sup>2</sup>
• Thickness of tape	100 µm 3.9 mils	• Shelf life time	24 months
• Type of adhesive	acrylic		

#### Adhesion to

- Steel > 1.8 N/cm  
16.4 oz/in

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### Properties

• Printability	●●●	• Humidity resistance	●●●●
• Temperature resistance short term	270 °C 518 °F	• Resistance to chemicals	●●●●
• Temperature resistance long term	120 °C 248 °F	• Suitable Laser	Nd:YAG
• Ageing resistance (UV)	●●●●	• Storage conditions	23°C, 50% RH, stored in original box
• Frost resistance	-50 °C -58 °F		

Evaluation across relevant tesa® assortment: ●●●● very good ●●● good ●● medium ● low

### Additional Information

Standard Dimensions:

120mm x 300m

## Disclaimer

tesa® 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® 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=06931>