

tesa® 6947 Laser-Label

High-Speed markable and fraud-resistant

PRODUCT INFORMATION

Product Description

tesa® 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

Main Application

- 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 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 ² |
| ■ 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 ₂ , 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

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/m², Thickness 100µm without Liner. Color code: 04
6947 PV3 black/ white matte: Adhesive 25g/m², Thickness 100µm without Liner. Color code: 28
6947 PV6 black/ white glossy: Adhesive 35g/m², Thickness 140µm without Liner. Color code: 04
6947 PV6 black/ white matte: Adhesive 35g/m², Thickness 140µm without Liner. Color code: 28

Optional: UV-Footprint adhesive (AF48):

tesa® 6947 AF48 is equipped with a special acrylic adhesive system containing fluorescence, which penetrates into the substrate leaving an UV-detectable trace ("UV-Footprint"). This special variant is available upon request.