tesa® 6947 Laser-Label

Product Information

High-Speed markable and fraud-resistant

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

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.

Applications

- 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 Information (average values)

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

Applications

Backing	Acrylic	Type of liner	coated paper
Type of adhesive	acrylic	Weight of liner	120 g/m²

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
- Chemical Resistance very good
- Frost resistance -40 °C
- Humidity resistance very good
- Peel off force from liner 0,5-10

- Suitable laser CO2, Nd:YAG, Yb:YAG
- Tamper evidence yes
- Temperature resistance long term 120 °C
- Temperature resistance short term 250 °C

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/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 (MU48 or MU49):
tesa® 6947 MU48/MU49 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.

Disclaimer

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