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

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

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

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

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Properties/Performance Values

• Ageing resistance (UV)	very good	• Suitable laser	CO2, 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		

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^2, Thickness 95µm/3.7 mils without Liner. Color code: 04
6947 PV3 black/ white matte: Adhesive 25g/m^2, Thickness 95µm/3.7 mils without Liner. Color code: 28
6947 PV6 black/ white glossy: Adhesive 35g/m^2, Thickness 140µm/5.5 mils without Liner. Color code: 04
6947 PV6 black/ white matte: Adhesive 35g/m^2, Thickness 140µm/5.5 mils without Liner. Color code: 28

To fulfill our customers' requirements for different applications and substrates the tesa® 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® 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® 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.

Disclaimer

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