tesa® 6940
Rapid Laser-Label

Product Information

High-Speed markable and self-adhesive

Product Description

tesa® 6940 is a double layer, 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 and also as a data carrier system for intelligent in-process steering.

The use of a high-speed laser enables a considerably quick marking.
(black, red and blue: up to 4000mm/ sec., yellow: up to 1000mm/sec).

Available in: black (glossy), red, yellow and blue

Application Fields

- 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.

Product Construction

• Backing material	Acrylic	• Type of liner	coated paper
• Type of adhesive	acrylic	• Weight of liner	120 g/m^2

For latest information on this product please visit http://l.tesa.com/?ip=06940

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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 270 °C

Storage Conditions

Storage Conditions
23°C, 50% RH, stored in original box

Additional Information

Standard Dimensions:
6940 PV6 black: width 100mm and 120mm, length 200m
6940 PV3 red, yellow, blue: width 120mm, length 300m

Assortment and Technical Data:
6940 PV6 black/ white glossy: Adhesive 35g/m^2, thickness 140µm without Liner. Color code: 04
6940 PV3 black/ white matt: Adhesive 25g/m^2, thickness 95µm without Liner. Color code: 04
6940 PV3 red/ white: Adhesive 25g/m^2, thickness 90µm without Liner. Color code: 19, close to RAL 3001/ Pantone 1807 C
6940 PV3 yellow/ black: Adhesive 25g/m^2, thickness 105µm without Liner. Color code: 17, close to RAL 1018/ Pantone Yellow C
6940 PV3 blue/ white: Adhesive 25g/m^2, thickness 90µm without Liner. Color code: 11, close to RAL 5002/ Pantone 2736 C

PV6 foil is thicker and more stiff than PV3 material and beneficial in handling in certain cases.

Please note. Colours red, yellow and blue have a limited resistance to UV. We recommend their suitability for outdoor applications should be tested before use. For assistance and advice please contact your tesa consultant.

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.

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