



tesa[®] 6940 PV3 Black Glossy FPA



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 realise 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 | Acrylic | • Type of liner | coated paper |
| • Type of adhesive | acrylic | • Weight of liner | 120 g/m ² |



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Properties/Performance Values

• Ageing resistance (UV)	very good	• Suitable laser	CO ₂ , Nd:YAG, Yb:YAG
• Chemical Resistance	very good	• Tamper evidence	yes
• Frost resistance	-40 °C	• Temperature resistance long term	120 °C
• Humidity resistance	very good	• Temperature resistance short term	270 °C
• Peel off force from liner	0,5-10		

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/m², thickness 140µm without Liner. Color code: 04

6940 PV3 black/ white matt: Adhesive 25g/m², thickness 95µm without Liner. Color code: 04

6940 PV3 red/ white: Adhesive 25g/m², thickness 90µm without Liner. Color code: 19, close to RAL 3001/ Pantone 1807 C

6940 PV3 yellow/ black: Adhesive 25g/m², thickness 105µm without Liner. Color code: 17, close to RAL 1018/ Pantone Yellow C

6940 PV3 blue/ white: Adhesive 25g/m², 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.



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