

# tesa® 6950 PV1 Black Matt FPA



## Product Information

High heat resistant, high-speed markable and tamper-proof

## Product Description

tesa® 6950 is a high heat resistant two-layer, brittle acrylic laser markable film with a special adhesive system. The “UV-Footprint” adhesive leaves an UV-detectable trace on most surfaces as required by GB/T 25978 (P.R.C.) and NHTSA §541.5 (USA) The label is destroyed upon any attempt of removing and tampering and leaves a visible trace (damage of information and label) to prevent re-using and cloning. tesa® 6950 is specially designed to also fulfill the requirements of GB/T 25978 (P.R.C.) for A to F-Type labels (incl. engine and transmission). 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.

## Product Features

- Meets Chinese GB/T 25978 (P.R.C.) Type A to F, European KBA and American NHTSA
- High heat resistance for applications on engine or transmission (F-type label, 1600h@150°C, according to GB/T 25978)
- High energy absorbing layer for high-speed marking to meet short cycle times
- Marked irreversible by laser with excellent long-term legibility
- Reliably withstand extreme stresses over long-term covering a wide range of applications in automotive theft-relevant labeling
- Label is destroyed upon any attempt of removing and tampering and leaves a visible trace (damage of information and label) to prevent re-using and cloning

## Application Fields

- tesa® 6950 is specially designed to also fulfill the requirements of GB/T 25978 (P.R.C.) for A to F-Type labels (engine and transmission)
- Theft- and certification-relevant security labeling in the automotive industry, such as VIN and other certification labels and anti-theft parts marking for secure traceability over the entire vehicle lifetime
- Warning and instruction labels, e.g. tyre and loading labels, caution or emission labels
- Laser marking ensures highest flexibility and quick adaptation of format and contents, e.g. car model relevant data, different languages, sequential serial numbers, scannable QR codes

## 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 film	• Total thickness	122 µm
• Type of adhesive	acrylic	• Adhesive weight	25 g/m <sup>2</sup>
• Type of liner	coated paper	• Thickness of tape	95 µm

# tesa<sup>®</sup> 6950

## PV1 Black Matt FPA

### Product Information

#### Product Assortment

- |                         |            |                     |  |
|-------------------------|------------|---------------------|--|
| • Available thicknesses | 95, 127 µm | • Available formats | Width: 100mm or 120mm, Length: PV3: 300m PV1: 200m |
|-------------------------|------------|---------------------|--|

#### Properties/Performance Values

- |                          |           |                                     |                                  |
|--------------------------|-----------|-------------------------------------|----------------------------------|
| • Ageing resistance (UV) | very good | • Suitable laser                    | CO <sub>2</sub> , Nd:YAG, Yb:YAG |
| • Chemical Resistance    | very good | • Tamper evidence                   | yes                              |
| • Frost resistance       | -40 °C    | • Temperature resistance long term  | 150 °C                           |
| • Humidity resistance    | very good | • Temperature resistance short term | 250 °C                           |
| • Shelf life time        | 12 months |                                     |                                  |

#### Adhesion to Values

- |         |          |
|---------|----------|
| • Steel | 1.8 N/cm |
|---------|----------|

### Storage Conditions

#### Storage Conditions

Original packaging excluding exposure of tapes to light and heating source

Storage of rolls in a horizontal position

Ideal storage at standard room temperature and rel. humidity according ISO 554

Refrigerated tapes need to be reconditioned prior to their use. An application below 10°C must be avoided as this may not provide sufficient immediate bonding

After opening the packaging, the tape shall be used as soon as possible

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## Product Information

### Additional Information

Product Assortment: 6950 PV1 black matt/ white: Adhesive 35g/m<sup>2</sup>, thickness 127µm tesa<sup>®</sup> 6957: The material is also available with a unique, forgery-proof, customer-specific watermark design that is embedded into the material as proof of originality

## Disclaimer

tesa<sup>®</sup> 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<sup>®</sup> 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.



For latest information on this product please visit <http://l.tesa.com/?ip=6950BMA1>