

# PRODUCT INFORMATION

## tesa Secure 6973 PV6 AF48 “footprint”

The high performance label for the permanent marking of high value products.

### PRODUCT DESCRIPTION/APPLICATION

tesa Secure 6973 PV6 AF48 consists of a double-layered, highly cross-linked polyacrylic film with a modified acrylic adhesive and a dimensionally stable release paper.

The special security feature of 6973 PV6 AF48 is the adhesive which contains fluorescent particles. Those particles are able to migrate into the application surface and leave visible traces in the surface even if a label is removed completely. Those residues are only visible under UV-light and therefore attempts of forgery are clearly detectable.

This product is suitable for use as identification, bar-code, inspection, inventory or rating labels. Engraving takes place using a laser beam (Nd:YAG- or CO<sub>2</sub>-Laser). This tamper-evident material can be used to replace etched metal plates or laminated printed synthetic labels. Due to better handling and higher stability it is especially good for label sheets in the automotive industry (vin-labels & body-labels).

### PRODUCT CHARACTERISTICS

- ◆ laser engraving & cutting
- ◆ tamper-evident
- ◆ temperature resistant
- ◆ abrasion resistant
- ◆ chemical resistant
- ◆ weather resistant
- ◆ good handling
- ◆ suited as a proof of forgery attempts

### Technical Data (*mean values*)

UPPER		ADHESIVE	
<b>Backing:</b>	mod. PU-acrylic film	<b>Adhesive type:</b>	mod. acrylic
<b>Thickness (excluding covering, incl. Adhesive):<sup>1)</sup></b>	145 µm / 5.7 mil	<b>Coating weight:<sup>1)</sup></b>	35 g/m <sup>2</sup>
<b>Substance (backing only):<sup>1)</sup></b>	175 g/m <sup>2</sup>	<b>Adhesion (Alu. Indirect):<sup>1)</sup></b>	3.3 N/cm / 30.1 oz/in
<b>Unwind Adhesion 90° from release paper:<sup>1)</sup></b>	2-8 cN/cm	<b>Temperature resistance:<sup>2)</sup></b>	
		<b>long term*</b>	220° C / 428° F
		<b>short term**</b>	270° C / 518° F

\* 48 hrs. without noticeable change  
 \*\* 15 mins. without noticeable change

RELEASE PAPER		OTHER	
<b>Weight:<sup>1)</sup></b>	108 g/m <sup>2</sup>	<b>Storage:</b>	room climate
<b>Thickness:<sup>2)</sup></b>	120 µm / 4.7 mil	<b>Engraving:</b>	-Nd:YAG-Laser -CO <sub>2</sub> -Laser

1) specification parameters  
 2) application characteristics

AVAILABLE FORMATS FOR DELIVERY	
<b>Subject to our conditions of sale</b>	Die-cut labels or rolls of 300m length and 100mm and 120mm width in the color black/white.

PROCESSING	
	Combined with an Nd:YAG- or CO <sub>2</sub> -Laser <b>tesa</b> solves marking problems on the spot. The labels can be cut to the size and shape of our choice. Application can be done semi- or fully-automatically using a special labeling machines. It can also be done manually using a label dispenser.

tesa self-adhesive tapes are used successfully in many sectors to solve a variety of applications. Our publications contain numerous examples of such uses, intended to help towards a solution of your particular problems. Each tesa product has been developed for a particular range of applications. Nevertheless, experience has shown that even for one and the same objective, the exact requirements may differ from case to case. We, therefore, recommend that you carry out your own tests in each case, to confirm that the tesa self-adhesive tape which you envisage using is appropriate for your particular application. Our Application Engineers will be happy to assist. All information and recommendations are given by us in good faith, on the basis of practical experience, but without warranty.