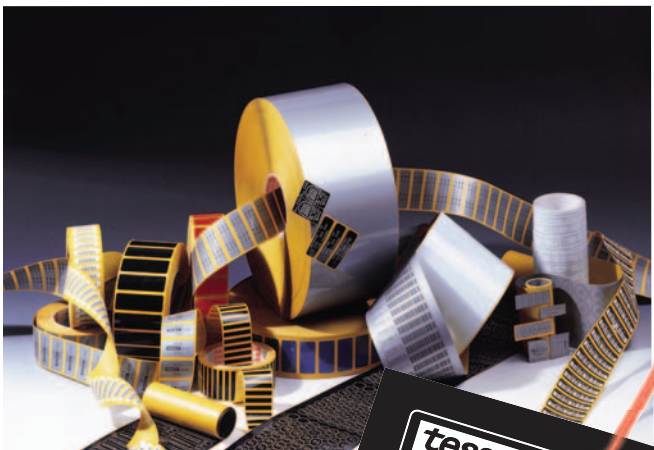




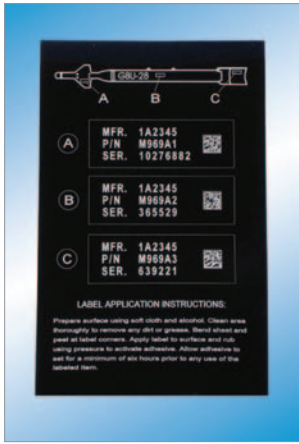
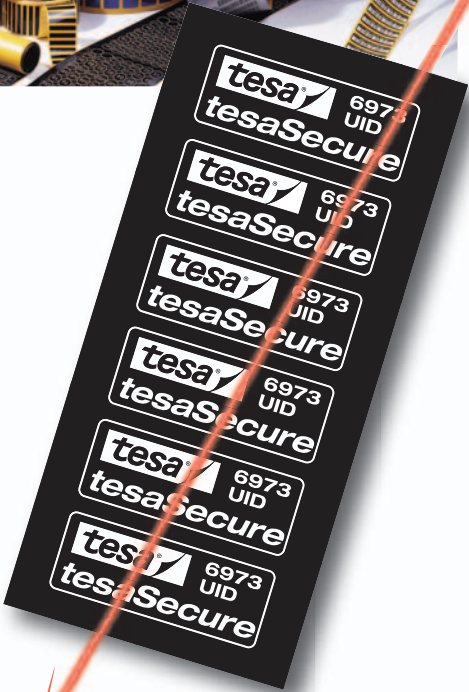
# tesa® Secure™ for Coding, Identification, and Marking



**tesa Secure** offers a cutting-edge alternative to conventional coding, identification, and marking methods. As robust as metal plates, yet with the flexible handling associated with labels, **tesa Secure 6973** laser labels are suitable for endless marking applications that require durability, flexibility, and resistance to forgery.



- Can be engraved and die-cut in one easy step using Nd:YAG or CO<sub>2</sub> lasers
- Resistant to abrasion, grease, oils, and many other chemicals
- Easily applied; no rivets or screws needed
- Temperature resistant (-50°C to +200°C; -58°F to +392°F)
- Custom sizes and shapes available
- Flexible handling
- Tamper evident
- Economical
- Peel and stick application



**tesa Secure...**  
*Suitable for UID – a “unique identifier” containing data elements used to track Department of Defense parts through their life cycles*

**Technical data (typical values):**

		<b>tesa Secure 6973 PV3</b>	<b>tesa Secure 6973 PV6</b>
<b>Material data carrier</b>		double layered acrylic foil, polymerized by electron beam	double layered acrylic foil, polymerized by electron beam
<b>Product / physical characteristics</b>			
• <b>Thickness<sup>1</sup></b>	carrier without backing, including adhesive	118 µm	145 µm
• <b>Adhesive<sup>1</sup></b>	resin modified, high-performance, acrylic adhesive	25 g/m <sup>2</sup>	35 g/m <sup>2</sup>
• <b>Liner<sup>1</sup></b>	compressed paper, double-sided, plastic-coated, dimensionally stable	110 g/m <sup>2</sup>	110 g/m <sup>2</sup>
• <b>Adhesion<sup>1</sup></b>	measured indirectly	3.3 N/cm	3.3 N/cm
<b>Application characteristics</b>			
<b>Adhesive as per DIN 30646 'Self-adhesive labels'</b>	P = permanent adhesive N = low-temperature adhesive S = for rough and/or non-absorbent surfaces		PNS
<b>Adhesion<sup>2</sup> to:</b> • steel • aluminum • polypropylene • polyethylene • polycarbonate • ABS • polyvinyl chloride		30 N / 25 mm 30 N / 25 mm 10 N / 25 mm 14 N / 25 mm 25 N / 25 mm 28 N / 25 mm 28 N / 25 mm	
Due to the brittle nature of the material, adhesion can only be measured indirectly. In some cases, the adhesion depends on the nature of the surface. The indicated adhesive values are for orientation only and intended as application aids.			
<b>Temperature resistance<sup>2</sup></b> (Test of the resistance to high and low temperatures, stuck to aluminum)		- 50°C to 200°C / -58°F to 392°F long term 250°C / 482°F (48 hours without visible changes) short term 270°C / 518°F (15 minutes without visible changes)	
<b>Weather resistance<sup>2</sup></b>	as per DIN 53387, 2000 h / corresponding to approx. 4-5 years		no changes
<b>Climatic resistance</b>	DIN 50017 SWF and DIN 50016 SWF 2,0S		
<b>Salt spray resistance<sup>2</sup></b>	as per SS DIN 50021, 240 h / 5% concentration, 35°C, 95°F		no changes
<b>Abrasion resistance</b>	crockmeter test at 200 strokes		no changes
	Tabor / Abraser CS 10.5 N / Pad at 300 strokes		
<b>Chemical resistance<sup>2</sup></b>	distilled water	+ 65°C / +149°F, 300 hours	
	95% relative humidity	+ 38°C / +100°F, 168 hours	
	SAE 20 engine oil	+ 23°C / +73°F, 250 hours	
	test petrol 60/95	+ 23°C / +73°F, 0.5 hours	
	caustic soda	10%, 200 hours	
	sulphuric acid transformer oil	30%, 300 hours + 23°C / +73°F, 250 hours	
<b>Flammability</b>	US 302	self-extinguishing in glued condition	
<b>Surface resistance</b>	as per VDE 03003, T.2	> 10 <sup>11</sup> Ω, i.e. non-conducting	
<b>Dielectric strength</b>	as per VDE 03003, T.2	480 kV <sub>rms</sub> /cm	
<b>Breakdown voltage</b>	as per VDE 03003, T.2	5 kV <sub>rms</sub> /cm	
<b>Corrosion properties</b>	as per VDE 0340, T.2; IEC 454.2 or ASTM D1000	neither adhesive nor carrier corrosive	
<b>UL/CSA listing</b>	MH18055 / 113693 L000		
<b>Suitability for food</b>	evaluation according to the food regulations	not applicable	

**Special product properties of tesa Secure 6973**

- durable
- tamper-evident
- temperature resistant
- abrasion resistant
- chemical resistant
- weather resistant

**tesa Secure 6973 PV3 available colors**

- black glossy / matte - white text
- white – black text
- silver – black text

**tesa Secure 6973 PV6 available colors**

- black glossy – white text



To learn more about the unique identification and Department of Defense UID policy, visit:

[www.acq.osd.mil/dpap/uid](http://www.acq.osd.mil/dpap/uid)



<sup>1</sup>) Specification parameters <sup>2</sup>) Application properties