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Tesa® 6973 PV6 label stock is a flexible, durable and economical 2-layer polyacrylic film designed for producing laser cut and etched linear and IUID 2D Data Matrix labels. Offering excellent adhesion to LSE plastics, Tesa® 6973 PV6 is a proven, MIL-STD-130 compliant label stock you can rely on for outstanding long-term performance in multiple marking applications.

The black top layer is bonded to a white base layer to form a strong homogeneous unit. A modified acrylic adhesive provides excellent grip, even on low-energy surfaces such as polypropylene.

#### **Material and Design Specifications**

- Material: Cast Modified Acrylate 0.0044" (0.11 mm) thick
- Laser-beam marked print method
- Product Form: Continuous die cut labels on rolls or cut to a specified sheet size
- Shelf Life Maximum storage period of 1 year under normal room conditions

## Adhesion\*

- Steel 30 N/25 mm
- Aluminum 30 N/25 mm
- Polypropylene 10 N/25 mm
- Polyethylene 25 N/25 mm
- Polycarbonate 14 N/25 mm
- ABS 28 N/25 mm
- PVC 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.

\*N/mm means that a force of that many newtons was developed across a sample that many mm wide during a peel test.

## Polyacrylic Labels - Tesa® 6973 PV6

IUID PRODUCT LINE

### **Key Features**

The cast modified polyacrylate facestock has a matte surface that can be marked with a CO  $_2$  or YaG laser, and is available in custom sizes and shapes. Here's what you get:

- Long-term durability
- Excellent abrasion, temperature, chemical and environmental resistance
- · High-resolution, high-contrast label images
- Good printability and excellent barcode readability
- Permanent adhesion to LSE plastics, oily metals, powder coatings and textured surfaces

#### **Industries and Applications**

• Tesa<sup>®</sup> 6973 PV6 produces labels with IUID 2D Data Matrix symbologies successfully used by the military as well as general industry. In some applications, it is suitable for tamper-evident identification.

Industrial

- Automotive
  - Consumer Goods •
  - Converter Solutions •
- Electronics

Packaging

- Medical
- Outdoor EquipmentSmall Arms

**Engine Compartments** 

Specialty Vehicle • Weapons Systems

### **Environmental Specifications**

- Operating Temperature Range: -58° F to +392° F (-58 to +200° C)
- Chemical Resistance: Excellent resistance to water, oil, humidity and caustics/acids.
- UV Resistance: Up to 5 years
- Climatic and Weather Resistance: Climatic resistance according to DIN 5007 SWF and DIN 5006 SWF 2.0S - no change. Weather resistance according to DIN 53387, 2000 hours, corresponding to approx. 4-5 years - no change.
- Salt Spray Resistance: SS DIN 50021, 240 hrs, 5% concentration, 35° C (95° F) no change







Fuel Transport Modules
Marine
Military Vehicles

Military

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## **Test Results**

These tests were conducted for a limited period in strict laboratory conditions. To achieve maximum satisfaction, we highly recommend any customer considering use of this product test the labels in the environment in which they will be used.

Resistance to Chemicals and Solvents: Samples applied to glass panels, allowed to wet out for 72+ hours, immersed in chemicals below. Ambient room temperature conditions											
Sample (Immersion Time)	Water	Salt Water	Bathroom Cleaner	Glass Cleaner	Isopropanol 99%	Brake Fluid DOT 3	Acetone	Diesel Fuel	Nitric Acid	Hydrochloric Acid	Sodium Hydroxide
Tesa 6973-PV6 (2 hours)	NE	NE	NE	NE	AO/ER	NE	TW	AO/ER	NE	NE	NE
Tesa 6973-PV6 (24 hours)	NE	NE	NE	NE	TW, AO	AO/ER	TW	AO/ER	NE	NE	NE
Tesa 6973-PV6 (48 hours)	NE	NE	NE	AL	TW, AO	AO/ER	ΤW	AO/ER	NE	NE	NE

Key: NE = No Effect, AO = Adhesive Ooze, AL = Loss of Adhesion to Glass Panel, TD = Tag Delaminated, PE = Print Erosion Under Laminate, ER = Adhesive Edge Erosion, TW = Tag Wrinkled

Resistance to Extreme Temperatures:				
Temperature	-40° F (-40° C)	450° F (232.2° C)		
Exposure Period	24 Hours	1 Hour (Max Temp. Exposure)		
Change	NE	NE		
Key: NE = No Effect				

Abrasion Resistance				
Test	Strokes	Result		
Crockmeter	200	NE		
Taber/Abraser: CS-10 abrading wheels, 500 gram per wheel load	1,300	NE		
Kev: NE = No Effect				

Environmental Performance	Conditions	Result		
Weather Resistance	DIN 53387, 2000 hours corresponding to approx. 4-5 years	No Change		
Climatic Resistance	DIN 5007 SWF and DIN 5006 SWF 2.0S	No Change		
Salt Spray Resistance	SS DIN 5002, 240 hrs, 5% concentration, 95° F (35° C)	No Change		

\*All technical information and recommendations are believed to be accurate but do not guarantee or warranty. Suitability is the responsibility of the user.

# Installation Instructions

- solvent to ensure surface is free from dirt, dust, oil and misc. debris that may affect adhesion.
- 2. Handle the tag by edges, peel release liner from back ensuring not to touch the adhesive.
- 1. Clean the surface using Isopropyl alcohol, alcohol pad or equivalent 3. Place the tag in desired tagging location and firmly apply even pressure to the tag for 5 seconds.
  - 4. Do not disturb the newly mounted tag for at least 72 hours to ensure proper adhesive seating.





