



Automotive & Industrial Permanent Protection Films

Hard-wearing, durable, and highly transparent permanent protection films



Superior performance

proven in artificial and real-life conditions

References & approvals

globally trusted by market leaders



Unprotected vs. Protected

Competitor solution shows yellowing



tesa® 52995 provides superior performance



	tesa® 52994			tesa® 52995	
	PV5	PV0	PV3	PV0	PV4
Audi		✓			✓
BMW		✓			
Ford		✓	✓	✓	✓
Fiat		✓	✓		
Geely		✓			
Mercedes	✓	✓	✓		✓
Nissan		✓			
Porsche				✓	
PSA			✓		
Saic-VW		✓		✓	
Seat		✓			
Skoda			✓	✓	
Toyota				✓	✓
VW		✓	✓	✓	✓

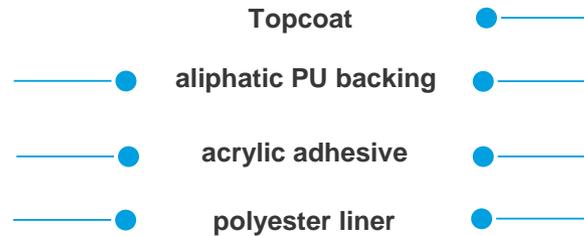
Permanent Surface Protection Films

Polyurethane Protection Tape design



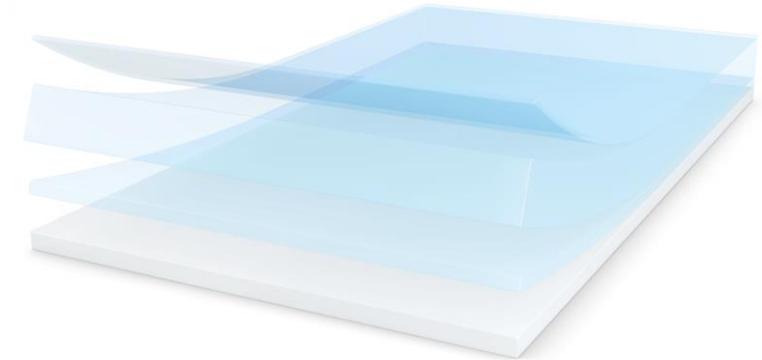
tesa® 52994

is a single-sided transparent protection film with a clear gloss aliphatic polyurethane backing, a permanent acrylic adhesive, and a matt polyester liner.



tesa® 52995

is a single-sided transparent protection film with a clear high gloss topcoated aliphatic polyurethane backing, a permanent acrylic adhesive, and a matt polyester liner.



Thickness

- tesa® 52994 PV3 – **360 µm**
- tesa® 52994 PV0 – **260 µm**
- tesa® 52994 PV5 – **187 µm**

Dimension

50 m x 1,245 mm



Thickness

- tesa® 52995 PV4 – **330 µm**
- tesa® 52995 PV0 – **280 µm**

Permanent Surface Protection Films



Performance *

	tesa® 52994			tesa® 52995	
	PV5	PV0	PV3	PV0	PV4
180° peel adhesion on steel ¹	>7.0 N/cm	>7.5 N/cm	>8.0 N/cm	>13.5 N/cm	>15.0 N/cm
Elongation at break (MD) ²	>310%	>330%	>410%	>210%	>225%
Tensile strength (MD) ²	>35 N/cm	>45 N/cm	>70 N/cm	>30 N/cm	>35 N/cm
Artificial Weathering Xenon Arc ³		>2,250 h		>2,250 h	
Artificial Weathering Florida ⁴		> 4,800 h		>4,800 h	
Artificial Weathering Arizona ⁵		>4,500 h		>4,500 h	
Scratch resistance ⁶	●●	●●	●●	●●●●	●●●●
Chemical resistance ⁷	●●●	●●●	●●●	●●●●	●●●●
Stone chip resistance ⁸	●●	●●●	●●●●	●●●	●●●●
Dimension stability		<1.0 mm		<1.0 mm	
Service temperature		-40°C to +90°C		-40°C to +90°C	

●●●● very good ●●● good ●● medium ● low

¹ acc. ISO 29862; ² acc. ISO 527; ³ acc. ASTM D7869; ⁴ humid/hot; ⁵ dry/hot; ⁶ Crockmeter test (dry/wet); ⁷ various liquids and conditions; ⁸ acc. ISO 20567-1, SEA J400;

* The values in this section should be considered representative or typical only and should not be used for specification purposes

Permanent Surface Protection Films

Features & benefits



Features

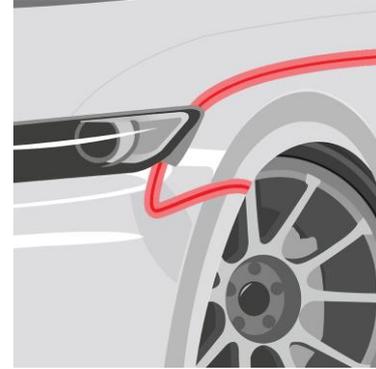


Benefits

<p>Transparency</p>	<p>Highly transparent product design, no interference with the appearance of the car and the additional topcoat provides outstanding gloss and enhances its exterior durability.</p>	
<p>Resistance (mechanical & chemical)</p>	<p>High scratch, abrasion, stone chip, chemical, and environmental resistance to defy all odds. Its self-healing behavior makes superficial scratches disappear.</p>	
<p>Resistance (weathering)</p>	<p>Excellent long-term UV stability without turning yellow over the vehicle's lifetime. Passes common artificial weathering tests.</p>	
<p>Conformability</p>	<p>Can be applied to even and slightly curved surfaces and can be used for anti-squeak applications.</p>	
<p>Dimension stability</p>	<p>No shrinkage over lifetime and very good die-cuttability.</p>	
<p>References</p>	<p>Approved by leading OEMs worldwide showing its paint and clearcoat compatibility.</p>	
<p>Technical support</p>	<p>Well-known tesa quality and support by tesa experts.</p>	

Permanent Surface Protection Films

Automotive OEM and aftermarket applications



Stone chip & scratch protection

Optical clear exterior stone chip protection for painted car body parts

- Wheel arches
- Doors
- Mirrors
- Door sill trims
- Trunk edges
- Door handles

Permanent paint & plastic protection

Optical clear exterior paint and plastic protection

- A-, B-, C-Pillar
- Bumpers
- Hoods
- Roofs

Corrosion & anti-squeak protection

Protection of visible and non-visible areas

- VIN label
- Friction surfaces
- Roof rails/rack
- Attachment parts



Transport

Optical clear scratch, abrasion, corrosion, and stone chip protection

- Railway
- Aviation
- Marine
- Caravans
- Bikes
- Scooter



Renewable energies

Impact and erosion protection

- Wind turbines
- Solar panels
- Frames
- Housings
- Racks



Many more, e.g. building industry

Scratch, abrasion, dent, and impact protection

- Elevators
- Furniture
- Door locks
- Handrails
- Frames
- Edges



tesa® products prove their impressive quality day in, day out in demanding conditions and are regularly subjected to strict controls. All technical information and data mentioned above are provided to the best of our knowledge on the basis of our practical experience. They shall be considered as average values and are not appropriate for a specification. Therefore 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. The user is responsible for determining whether the tesa® 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.