



# tesa<sup>®</sup> 52210

## Ultra Low VOC



### Product Information

100 µm/3.9 mils double-sided, water-based, acrylic non-woven tape for demanding lamination applications in automotive interior

### Product Description

tesa<sup>®</sup> 52210 is a conformable, water-based acrylic non-woven tape with a thickness of 100 µm/3.9 mils. This tape has especially been developed for all kinds of demanding lamination and converting applications. Due to its low VOC property it is particularly designed to meet automotive interior requirements.

tesa<sup>®</sup> 52210 is suitable for laminating all kinds of foam, fleece, and felt substrates.

This product is also available in 150 µm/5.9 mils (tesa<sup>®</sup> 52215).

#### Main features:

- Available in efficient lengths and widths
- Low VOC (according to GB 27630) – no critical substances detectable
- Highly conformable to follow difficult 3-D shapes
- Very low total VOC values
- High initial tack and peel adhesion
- Excellent bonding strength to a wide variety of interior substrates
- Secure mounting even to nonpolar plastics (PP) and composites (recycled materials)
- Excellent die-cutting properties due to non-woven backing

### Product Features

- Ultra low total VOC concentration according to VDA 278 analysis
- Very good bonding strength, often also on low surface energy surfaces
- Good converting and die-cutting properties
- High initial tack and peel adhesion
- Highly conformable to follow difficult 3D shapes due to non-woven backing
- Ultra low total VOC concentration according to VDA 278 analysis

### Application Fields

tesa<sup>®</sup> 52210 is suitable for various types of lamination applications.

#### Example applications are:

- Lamination of insulation materials
- Laminates for NVH (noise, vibration, and harshness) and BSR (buzz, squeak, and rattle) prevention
- Bonding of decorative fabrics
- Lamination of foam for HVAC (heating, ventilation, and air conditioning) seals
- Mounting of flooring systems

To ensure the highest performance possible, our aim is to fully understand your application (including the substrates involved) in order to provide the right product recommendation.

For latest information on this product please visit <http://l.tesa.com/?ip=52210>



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### 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	non-woven	• Color	translucent
• Type of adhesive	water-based acrylic	• Color of liner	brown
• Type of liner	glassine	• Thickness of liner	80 µm
• Total thickness	100 µm 3.9 mils	• Weight of liner	3.1 mils 90 g/m <sup>2</sup>

### Properties/Performance Values

• Elongation at break	5 %	• Suitable for die cutting	yes
• Tensile strength	10 N/cm 5.7 lbs/in	• Tack	good
• Ageing resistance (UV)	very good	• Temperature resistance long term	80 °C 176 °F
• Humidity resistance	good	• Temperature resistance min.	-40 °C -40 °F
• Static shear resistance at 23°C	medium	• Temperature resistance short term	200 °C 392 °F

### Adhesion to Values

• ABS (initial)	6.1 N/cm 55.7 oz/in	• PET (after 14 days)	7.8 N/cm 71.3 oz/in
• ABS (after 14 days)	9.5 N/cm 86.8 oz/in	• PP (initial)	3.2 N/cm 29.2 oz/in
• Aluminium (initial)	3.9 N/cm 35.6 oz/in	• PP (after 14 days)	3.6 N/cm 32.9 oz/in
• Aluminium (after 14 days)	7.1 N/cm 64.9 oz/in	• PS (initial)	7.9 N/cm 72.2 oz/in
• PC (initial)	7.3 N/cm 66.7 oz/in	• PS (after 14 days)	9.4 N/cm 85.9 oz/in
• PC (after 14 days)	8.7 N/cm 79.5 oz/in	• PVC (initial)	7.1 N/cm 64.9 oz/in
• PE (initial)	2 N/cm 18.3 oz/in	• PVC (after 14 days)	8.5 N/cm 77.7 oz/in
• PE (after 14 days)	3 N/cm 27.4 oz/in	• Steel (initial)	6 N/cm 54.8 oz/in
• PET (initial)	4.3 N/cm 39.3 oz/in	• Steel (after 14 days)	11.2 N/cm 102.3 oz/in



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#### Additional Information

According to VDA278 analysis, our 52210-tapes do not contain any single substances restricted by the drafted GB regulations (China) as well as the indoor concentration guideline by Health, Labour and Welfare Ministry (Japan). Ultra low total VOC concentration according to VDA 278 analysis

Adhesion values to:

ABS

PC

PET

PP

are not part of the product specification

### 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=52210>