



tesa[®] 52105

Ultra Low VOC



Product Information

50 µm/1.96 mils double-sided, transparent, water-based acrylic transfer tape for lamination applications in automotive interior

Product Description

tesa[®] 52105 is a conformable, transparent water-based acrylic transfer tape with a thickness of 50 µm/1.9 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[®] 52105 is suitable for laminating all kinds of foam, fleece, and felt substrates.

This product is also available in 100µm/3.94 mils (tesa[®] 52110).

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)
- Good die-cutting properties

Product Features

- High initial tack and peel adhesion
- Very good bonding strength to a wide variety of substrates
- Good die-cutting properties
- Highly conformable to follow difficult 3D shapes
- Ultra low total VOC concentration according to VDA 278 analysis

Application Fields

tesa[®] 52105 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=52105>



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Product Information

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	none	• Color of liner	yellow
• Type of adhesive	water-based acrylic	• Thickness of liner	80 µm
• Type of liner	glassine	• Thickness of tape	50 µm
• Color	transparent		2 mils

Properties/Performance Values

• Ageing resistance (UV)	very good	• Suitable for rough surfaces	good
• Fogging	very good	• Temperature resistance max.	170 °C
• Humidity resistance	good		338 °F
		• Temperature resistance short term	150 °C
			302 °F

Adhesion to Values

• PP (initial)	3 N/cm	• Steel (initial)	7.2 N/cm
	27.4 oz/in		65.8 oz/in
• PP (after 14 days)	4.4 N/cm	• Steel (after 14 days)	9.2 N/cm
	40.2 oz/in		84.1 oz/in

Additional Information

According to VDA278 analysis, our 52105-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



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Product Information

Disclaimer

tesa[®] 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[®] 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.



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