

tesa® 51014

Product Information



215 µm double sided translucent non woven tape with asymmetrical product design

Product Description

tesa® 51014 is a double-sided industrial mounting tape consisting of a non-woven backing and a highly tackified acrylic adhesive. The asymmetrical non-woven tape is especially designed for excellent performance on rough surfaces like leather and textiles, or plaster and stone. The liner-covered side of tesa® 51014 has a high coating weight for maximum flexibility and versatility for multiple surface demands, particularly very rough surfaces. The open side has a reduced coating weight that delivers a secure bond to flat surfaces under controlled conditions. The mounting tape is able to withstand numerous environmental factors such as humidity, UV light, and temperatures of up to 200°C for limited periods of time. The tackified acrylic adhesive offers excellent hold on various surfaces, very high tack, and good shear strength. The adhesive is coated on a flexible and conformable cellulose non-woven backing that even conforms to difficult 3D shapes.

Product Features

- Asymmetrical product design with 150 µm adhesive on liner-covered side, 50 µm on open side
- Excellent performance on rough surfaces like leather and textiles
- High initial tack and peel adhesion
- Immediate usability right after assembly
- Reliable bond, often also on low surface energy surfaces

Application Fields

- tesa® 51014 is suitable for various types of mounting applications
- Bonding leather and textiles as sewing support
- Laminating foamed materials in combination with smooth materials on the open side
- Mounting car roof linings in car production
- Mounting cables and wire harnesses to headliners for automotive interiors

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	tackified acrylic	• Color of liner	red
• Type of liner	PE	• Thickness of liner	90 µm
• Total thickness	215 µm	• Weight of liner	82 g/m ²

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Properties/Performance Values

• Elongation at break	3 %	• Temperature resistance min.	-40 °C
• Tensile strength	8 N/cm	• Temperature resistance short term	200 °C
• Temperature resistance long term	80 °C		

Adhesion to Values

• ABS (initial)	6.5 N/cm	• PET (covered side, after 14 days)	11.8 N/cm
• ABS (after 14 days)	7.6 N/cm	• PET (covered side, initial)	10 N/cm
• ABS (covered side, after 14 days)	13.1 N/cm	• PP (initial)	5.2 N/cm
• ABS (covered side, initial)	11.3 N/cm	• PP (after 14 days)	5.8 N/cm
• Aluminium (initial)	5.9 N/cm	• PP (covered side, after 14 days)	13.3 N/cm
• Aluminium (after 14 days)	6.3 N/cm	• PP (covered side, initial)	10.6 N/cm
• Aluminium (covered side, after 14 days)	12.1 N/cm	• PS (initial)	6.6 N/cm
• Aluminium (covered side, initial)	10.8 N/cm	• PS (after 14 days)	7.5 N/cm
• PC (initial)	6.8 N/cm	• PS (covered side, after 14 days)	12.9 N/cm
• PC (after 14 days)	12.9 N/cm	• PS (covered side, initial)	12.1 N/cm
• PC (covered side, after 14 days)	16 N/cm	• PVC (initial)	5.9 N/cm
• PC (covered side, initial)	12.8 N/cm	• PVC (after 14 days)	9.5 N/cm
• PE (initial)	5.2 N/cm	• PVC (covered side, after 14 days)	13.8 N/cm
• PE (after 14 days)	5.6 N/cm	• PVC (covered side, initial)	8.8 N/cm
• PE (covered side, after 14 days)	8.6 N/cm	• Steel (initial)	7.3 N/cm
• PE (covered side, initial)	7.5 N/cm	• Steel (after 14 days)	8.6 N/cm
• PET (initial)	5.5 N/cm	• Steel (covered side, after 14 days)	12.9 N/cm
• PET (after 14 days)	5.9 N/cm	• Steel (covered side, initial)	11.7 N/cm

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