



Certifications

Our company is focused on international quality, environmental, and occupational safety standards.

Please find more information regarding our certifications at: www.tesa.com/certifications

tesa SE Phone: +49 40 88899 0 tesa.com/company/locations

assortment



High-quality solutions for industrial trade



Structure of a cloth tape

Our cloth tape qualities

Top coat

The type of top coat has a big influence on the following tape properties:

- · Level of gloss: shiny or matt
- Ability to write, print, or coat the tape
- Resistance against solvents/ moisture/humidity
- Unwinding behavior

Plastic layer

The layer affects major characteristics of the cloth tape:

- Color
- Barrier function
- Creates abrasion resistance
- Stiffness



Fabric

The backing is responsible for different features of the adhesive tape:

- Flexibility and conformability
- Mechanical properties, such as tensile or elongation
- Abrasion resistance
- Enables the removal of the tape

Adhesive system

Depending on the specific adhesive system the following features are affected:

- Adhesion/peel resistance
- Cohesion/shear resistance
- Initial bond/tack

Product and classification



Application factors

	Speci	Specialties Premium cloth tapes		Gaffer tapes			Duct tape						
Product characteristics	tesa® 4657	tesa® 4660	tesa® 4651	tesa® 4661	tesa® 4541	tesa® 4549	tesa® 4671	tesa® 53799	tesa® 53949	tesa® 4688	tesa® 4621	tesa® 4662	tesa® 4615
Humidity resistance	••••	••••	••••	••••		••	•••	••••	••••	••••	••••	••••	•••
Aging resistance (UV)					•	•	••	••	••	••	••••	•	•
Solvent resistance	••••	••••	••••	••••	•	•	•••	•••	•••	•••	••••	••	••
Abrasion resistance	••••	••••	••••	••••	•••	•••	•••	••	••	••	•	••	•
Flexibility	•••	•••	•••	•••	••••	••••	•••	••	••	•••	•••	••	•••
Hand-tearability	••••	••••	••••	••••	••	••	••••	•••	•••	•••	••••	•••	•••
Writable surface	••••	••••	••••	••••	••	••	•••	••	••	••	••	••	••
Residue-free removability								••	•••	••	••••	•	•
								•	••• Very	good •	• Good	•• Mediu	m • Lov

As a multinational company, tesa develops innovative adhesive tapes and self-adhesive system solutions for various industries, commercial customers, and end consumers. The age of technical adhesive tapes began 125 years ago, and there are already more than 7,000 tesa adhesive solutions that help improve the work, products, and lives of our customers. Today, the focus is on sustainability and energy-saving processes. tesa invests in the development of environmentally friendly products and solvent-free manufacturing processes, as well as in the use of renewable energy sources at its locations.

Our cloth tapes are ideal products for the daily demands encountered in industry and by craftsmen - the applications are endless, including usage in extreme temperature and climatic conditions.

Specialties and Premium tapes: For sophisticated applications with a high level of properties: highly temperatureresistant, excellent abrasion resistance, and straight longitudinal and horizontal tear edges.

Gaffer tapes: Ideal tapes for temporary applications. They can be used on rough surfaces and can be removed quickly and residuefree after usage.

Duct tapes: The universal helper especially suitable for general purpose and temporary applications. They have a lower tensile strength and limited resistance to weathering.

This folder will assist you in finding the perfect tape solution for your specific requirement: for any maintenance, repairing, or overhaul task in technical and industrial plants, for technical services in industry, or for competent and supportive solutions in arts and entertainment.



* Mesh is the measure for quality and performance of woven fabric and counted by the sum of the threads in machine (warp) and cross (weft) direction per square inch.

High-quality solutions for industrial trade

pecialties	tesa sustaina- bility marker	Product description and application Technical information			Properties	
		tesa [⊗] 4657	Backing	Acrylic-coated cloth		
		• 76% bio-based content in total	Adhesive	Natural rubber	145	
		product excluding liner (by weight)Very aging-resistant (allowing for	Total thickness [µm]	290		
	0	permanent applications)	Adhesion to steel [N/cm]	4.6		
		 Very conformable tape which adapts to uneven and shaped surfaces 	Tensile strength [N/cm]	105		
		without creasing Removable without residue even 	Elongation at break [%]	8		
		after high temperature exposure	Color	$\bullet igodot$	+	
			Temperature resistance [30 min]	180°C		
			Backing	Acrylic-coated cloth		
h /	Ĩ	tesa [®] 4660	Adhesive	Natural rubber		
		 68% bio-based content in total product excluding liner (by weight) 	Total thickness [µm]	260		
		Printable surface, especially	Adhesion to steel [N/cm]	4.0		
		recommended for flexographic printing	Tensile strength [N/cm]	100		
		 High adhesion on almost any surface Ideal solution for high temperature 	Elongation at break [%]	8		
et a		label in metal industry	Color	$\bigcirc \bigcirc$		
			Temperature resistance [30 min]	180°C	ww	
emium cloth tapes	tesa sustaina- bility marker	Product description and application	Technical information		Properties	

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tesa® **4651**

- 68% bio-based content in total product excluding liner (by weight)
- Very strong adhesion even on rough
- and slightly oily surfaces • Flexible and conformable
- Easy to write on
- Ideal solution for sandblasting

	PA
A MARTIN A	
7/11	

tesa® **4661**

- 60% bio-based content in total product excluding liner (by weight) Highest adhesion level in premium cloth assortment • Available as spool for for automated
- processes, such as bicycle wheel production

tesa®	4541
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- 87% bio-based carbon content in total product (tested acc. to EN
- 16640) • Extremely flexible and conformable tape
- Adapts to uneven surfaces without creasing

Technical information		Properties
Backing	Acrylic-coated	145 <i>M</i> A
Adhesive	Natural rubber	
Total thickness [µm]	310	
Adhesion to steel [N/cm]	3.3	
Tensile strength [N/cm]	100	
Elongation at break [%]	13	
Color	$\bullet \bigcirc \bullet \bullet$	ww
Temperature resistance [30 min]	130°C	
Backing	Acrylic-coated	145
Adhesive	Natural rubber	
Total thickness [µm]	300	
Adhesion to steel [N/cm]	5.8	
Tensile strength [N/cm]	100	
Elongation at break [%]	12	
Color	$\bullet \bigcirc \bullet \bigcirc \bullet \bullet \bullet \bullet \bullet$	
Temperature resistance [30 min]	140°C	
Backing	Uncoated cloth	145 🙈
Adhesive	Natural rubber	A
Total thickness [µm]	270	
Adhesion to steel [N/cm]	3.6	
Tensile strength [N/cm]	90	
Elongation at break [%]	16	
Color	$\bullet \bigcirc$	VNN





tesa sustaina-Product description and application

tesa® **4549**

- 71% bio-based carbon content in total product (tested acc. to ASTM D6866-21)
- Very conformable tape which adapts to uneven and shaped surfaces without creasing
- Designed for clean removal For edge protection in glass
- production

tesa sustainaaffer tape bility marker



tesa[®] 4671

• 51% bio-based carbon content in total product (tested acc. to ASTM D6866-21)

Product description and application

- Premium gaffer tape for exhibitions and on stage
- Available in fluorescent neon colors
- Solvent-free production

tesa® **53799**

- Polyethylene-coated mid-grade cloth tape
- Very good adhesion, even on rough surfaces
- · Excellent tensile strength
- Water-repellent Easy to tear by hand
- All-rounder used for repairing and construction applications

tesa® **53949**

- Matt gaffer tape for fair and
- exhibitions • Ideal solution on stage or when
- non-reflective surface is important
- Easy to tear by hand

tesa® **4688**

- Universal cloth tape, convenient for a variety of needs with very good handling characteristics
- Very good adhesion to multiple surfaces



Technical information

Backing	Uncoated cloth
Adhesive	Natural rubber
Total thickness [µm]	300
Adhesion to steel [N/cm]	3.6
Tensile strength [N/cm]	90
Elongation at break [%]	16
Color	0
Temperature resistance [30 min]	140°C

Properties



Technical information

Properties

Backing	Acrylic-coated cloth	120 🦚
Adhesive	Natural rubber	
Total thickness [µm]	280	
Adhesion to steel [N/cm]	3.8	
Tensile strength [N/cm]	70	
Elongation at break [%]	9	
Color (neon)	$\bullet \bigcirc \bullet \bullet \bullet \bullet \bullet \bullet$	VN
Temperature resistance [30 min]	140°C	
Backing	PE-extruded cloth	90
Adhesive	Natural rubber	
Total thickness [µm]	310	
Adhesion to steel [N/cm]	4.7	
Tensile strength [N/cm]	77	
Elongation at break [%]	11	
Color	$\bullet \bullet \bullet \bullet \bullet \bullet$	
Temperature resistance [30 min]	110°C	/ \
Backing	PE-extruded cloth	90
Adhesive	Natural rubber	
Total thickness [µm]	310	
Adhesion to steel [N/cm]	1.6	
Tensile strength [N/cm]	85	
Elongation at break [%]	14	
Color	$\bigcirc ullet \bigcirc$	
Temperature resistance [30 min]	125°C	÷++
Backing	PE-extruded cloth	
Adhesive	Natural rubber	
Total thickness [µm]	260	
Adhesion to steel [N/cm]	4.5	
Tensile strength [N/cm]	52	
Elongation at break [%]	9	
Color	$\bullet \bigcirc \bullet \bullet \bullet \bullet \bullet \bullet \bullet \bullet$	
Temperature resistance [30 min]	110°C	

	tesa sustaina- bility marker	Product description and application	Technical information		Properties	
			Backing	PE-extruded cloth	100	
		tesa® 4621	Adhesive	Acrylic		
		Effortlessly tearable by hand in both	Total thickness [µm]	125		
	N. TO	vertical and horizontal directionsGentle unwinding without curling	Adhesion to steel [N/cm]	2.6		
ON TC		Waterproof and weather resistant for	Tensile strength [N/cm]	54		
incing off, non-mmy mod uncu it leavest theorem		up to 8 weeks Withstands wear and tear from tools 	Elongation at break [%]	22		
tinopan doloreesiit mogr eliquam erat abr		Ideal solution for outdoor masking	Color			
			Temperature resistance [30 min]	95°C		
		 tesa® 60462 67% of the backing is made from 	Backing	PE-laminated cloth, 67% PCR content		
		 or % of the backing sinade non- post-consumer recycled plastics, which accounts for 30 % of the total product Bonds instantly with excellent adhesion on a variety of materials, including rough surfaces The product is mainly used in construction industry for a variety of heavy duty applications 	Adhesive	Synthetic rubber		
			Total thickness [µm]	215		
			Adhesion to steel [N/cm]	8.0		
			Tensile strength [N/cm]	40		
-			Elongation at break [%]	16		
			Color	$\bigcirc \bullet \bigcirc$		
			Temperature resistance [30 min]	60°C		
8			Backing	PE-laminated cloth, 63% PCR content	27	
1/8		 tesa® 4615 63% of the backing is made from post-consumer recycled plastics, which accounts for 31% of the total product Bonds instantly with high adhesion on a variety of materials For a variety of basic applications 	Adhesive	Synthetic rubber		
631			Total thickness [µm]	175		
	CN.		Adhesion to steel [N/cm]	7.0	32	
1			Tensile strength [N/cm]	40		
J			Elongation at break [%]	18		
			Color	$\bigcirc ullet$		
			Temperature resistance [30 min]	60°C		

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UL- Certificate

A third-party environmental claim validated against the UL Environmental Claim Validation Procedure 2809 for recycled content. The UL Environmental Claim Validation Program falls under UL's ISO/IEC 17025 accreditation.

Post-Consumer Recycled (PCR) material is made from waste collected after products can no longer be used -either by households or businesses. PCR use is critical to achieving a circular economy in the plastics industry. While it is challenging to separate the variety of dissimilar materials in post-consumer waste, recycling processes for clean and homogenic materials such as PET plastic bottles for drinks are already highly efficient.



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 above mentioned 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.

Technical data

Product	tesa sustaina- bility marker	Sustainable product aspect ¹	Backing	Mesh [threads/ inch²]	Adhesive	Total thickness [µm]	Adhesion to steel [N/cm]	Tensile strength [N/cm]	Temperature resistance [°C/30 min]
Specialties									
tesa® 4657	Ĩ	76% bio-based ² content by weight	Acrylic-coated cloth	145	Natural rubber	290	4.6	105	180
tesa® 4660	Y	68% bio-based ² content by weight	Acrylic-coated cloth	145	Natural rubber	260	4.0	100	180
Premium									
tesa [®] 4651	Ŷ	68% bio-based ² content by weight	Acrylic-coated cloth	145	Natural rubber	310	3.3	100	130
tesa [®] 4661	Ŷ	60% bio-based ² con- tent by weight	Acrylic-coated cloth	145	Natural rubber	300	5.8	100	140
tesa® 4541	Ŷ	87% bio-based carbon ³ content	Uncoated cloth	145	Natural rubber	270	3.6	90	130
tesa® 4549	Ĩ	71% bio-based carbon ³ content	Uncoated cloth	145	Natural rubber	300	3.6	90	140
Gaffer tapes									
tesa [©] 4671	Ŷ	51% bio-based carbon ³ content	Acrylic-coated cloth	120	Natural rubber	280	3.8	70	140
tesa® 53799		-	PE-extruded cloth	80	Natural rubber	310	4.7	77	110
tesa® 53949		-	PE-extruded cloth	80	Natural rubber	310	1.6	85	125
tesa [®] 4688			PE-extruded cloth	55	Natural rubber	260	4.5	52	110
Duct tape									
tesa [®] 4621		-	PE-extruded cloth	100	Acrylic	125	2.6	54	95
tesa [®] 60462	Ľ	30% recycled content ⁴ (PCR)	PE-laminated cloth, 67% PCR content	27	Synthetic rubber	215	8.0	40	60
tesa [®] 4615	Y	31% recycled content ⁴ (PCR)	PE-laminated cloth, 63% PCR content	27	Synthetic rubber	175	7.0	40	60



tesa Sustainability Marker Industry

This icon identifies our more sustainable products. We continually strive to make our products and assortment more sustainable. To demonstrate our initiatives and efforts in the industrial segment, this marker highlights our more sustainable products.

1) All values describe the total product excluding any liner component.

2) Bio-based content includes the total weight of all bio-based components, including e.g. carbon, hydrogen and oxygen content.

3) Bio-based carbon content includes total organic carbon, while inorganic carbon content (e.g. carbon in chalk/CaCO3) is either included (DIN EN 16640) or excluded (ASTM D6866).

4) PCR: post-consumer recycled material

Duct tape

Scan here for more infos!

