

# Adhesive tape solutions for bicycle applications



## Applications and products overview

### Specialty masking (structural components, drivetrain)

- 1 Paint masking: tesa® 4308 / 4330 / 4338
- 2 Fine line tesa® 4174 / 50777
- 3 Protection during sandblasting & powder coating: tesa® 4423 / 4434 / 50620 / 50625
- 4 General purpose masking tesa® 4316 / 5006

### Protection (structural components, wheels, drivetrain, control and comfort)

- 5 Tube / rim protection: tesa® 4661 / 4289
- 6 Temporary surface protection (logistic/transport): tesa® 4848 / 50530
- 7 Paint / body protection: tesa® 52994

### Fixation (control and comfort)

- 8 End tapping of handlebars & cable fixation: tesa® 4541

### Label (structural components)

- 9 Security label: tesa® 6930

### Specialty mounting (structural components, drivetrain)

- 10 Design ornament and label mounting: tesa® 4965 / 755xx
- 11 Gravel protector mounting: tesa® 7048

#### NOTES

- Structural components: frame, fork and headset
- Wheels → hub, spokes, rim and tires
- Drivetrain → crankset, pedals, chain, cassette/freewheel and derailleurs
- Control and comfort: handlebars and stem, saddle, seatpost and brakes

Product	Adhesive	Backing	Liner	Thickness	Features
<b>Speciality masking (structural components, drivetrain)</b>					
<b>Paint masking</b>					
tesa® 4308	Natural rubber	Slightly-creped paper	-	150 µm	<ul style="list-style-type: none"> <li>• Suitable for the automotive, car body repair and transportation industry</li> <li>• Flexible backing allows good conformability to irregular surfaces</li> <li>• Ideal for the protection of delicate surfaces</li> </ul>
tesa® 4330	Natural rubber	Slightly-creped paper	-	170 µm	<ul style="list-style-type: none"> <li>• High performance paper masking tape for paintworks with oven drying up to 140 °C</li> <li>• Flexible, wet resistant masking tape with a high tensile strength</li> </ul>
tesa® 4338	Natural rubber	Slightly-creped paper	-	145 µm	<ul style="list-style-type: none"> <li>• High visibility due to vivid color</li> <li>• Excellent handling (easy and controlled unwinding, finger friendly, and high conformability)</li> <li>• For multiple drying cycles – up to six cycles at 120 °C/40 min</li> </ul>
<b>Fine line masking</b>					
tesa® 4174	Natural rubber	PVC film	-	110 µm	<ul style="list-style-type: none"> <li>• Curved fine-line masking &amp; masking for sealing processes</li> <li>• Excellent masking on painted &amp; unpainted surfaces. Good conformability with multidimensional surfaces.</li> <li>• Residue-free up to 150 °C for 1 h</li> </ul>
tesa® 50777	Acrylic	PVC film	-	132 µm	<ul style="list-style-type: none"> <li>• Easy unwinding for smooth manual or semi-manual tape applications. Hand-tearable</li> <li>• No ghosting after drying at high temperatures (up to 160°C)</li> <li>• Comfortable behavior for masking in narrow curves/areas</li> </ul>
<b>Sandblasting &amp; powder coating masking</b>					
tesa® 4423	Natural rubber	Flat paper	-	145 µm	<ul style="list-style-type: none"> <li>• Paper stencil material for short term sandblasting applications</li> <li>• It is suitable for a variety of common surfaces such as glass, aluminium, wood and especially hard-PVC.</li> </ul>
tesa® 4434	Natural rubber	Flat paper	-	670 µm	<ul style="list-style-type: none"> <li>• Stencil material for sandblasting, protection and reinforcement</li> <li>• Strong, thick and resistant paper backing suitable for manual cutting</li> </ul>
tesa® 50620	Silicone	PET	-	70 µm	<ul style="list-style-type: none"> <li>• High temperature resistant. Residue-free removability</li> <li>• Sharp paint edges &amp; good paint anchorage.</li> </ul>
tesa® 50625	Silicone	Polyester	-	50 µm	<ul style="list-style-type: none"> <li>• High temperature resistant. Residue-free removability</li> <li>• Sharp paint edge &amp; very conformable for the use on irregular shapes</li> </ul>
<b>General purpose masking</b>					
tesa® 4316	Natural rubber	Fine creped paper	-	140 µm	<ul style="list-style-type: none"> <li>• The product is thin and flexible, therefore, suitable for all general masking applications</li> <li>• Suitable for oven drying applications up to a temperature of 100 °C.</li> </ul>
tesa® 5006	Natural rubber	Slightly-creped paper	-	120 µm	<ul style="list-style-type: none"> <li>• The chamois crepe paper backing ensures a good conformability.</li> <li>• The natural rubber adhesive system features good adhesion to multiple surfaces as well as a good tack.</li> <li>• Suitable for light duty spray painting and general purpose applications like, holding, sealing, fixing</li> </ul>
<b>Protection (structural components, wheels, drivetrain, control and comfort)</b>					
<b>Tube / rim protection</b>					
tesa® 4661	Natural rubber	Acrylic-coated cloth	-	300 µm	<ul style="list-style-type: none"> <li>• High adhesion, even on rough surfaces</li> <li>• Very high tensile strength</li> <li>• Abrasion-resistant</li> </ul>
tesa® 4289	Natural rubber	MOPP	-	144 µm	<ul style="list-style-type: none"> <li>• Very high tensile strength with low elongation at the same time.</li> <li>• Abrasion-resistant</li> </ul>
<b>Temporary surface protection (logistic / transport)</b>					
tesa® 4848	Acrylic	PE film	-	48 µm	<ul style="list-style-type: none"> <li>• Temporary transparent surface protection film for large areas and paint applications</li> <li>• UV resistance</li> </ul>
tesa® 5053x	EVA	Polyolefinic film	-	79 µm	<ul style="list-style-type: none"> <li>• Temporary protection - secure adhesion during transport. Easy to apply &amp; remove</li> <li>• Paint protection during outdoor storage up to 12 months</li> </ul>
<b>Paint / body protection (permanent)</b>					
tesa® 5299x	Acrylic	PU film	PET	260 µm	<ul style="list-style-type: none"> <li>• Permanent protection against abrasion, corrosion and stone-chipping</li> <li>• The film is developed particularly for external application and is specifically suited for use on painted surfaces.</li> </ul>
<b>Fixation (control and comfort)</b>					
<b>Endtapping of handlebars &amp; cable fixation</b>					
tesa® 4541	Natural rubber	Uncoated cloth	-	270 µm	<ul style="list-style-type: none"> <li>• Good adhesion even on rough and oily surfaces</li> <li>• Conforms to surfaces without creasing</li> <li>• Easy to write on, ideal marking tape</li> </ul>
<b>Label (structural component)</b>					
<b>Security Label</b>					
tesa® 6930	Acrylic	Acrylic	Coated paper	95 µm	<ul style="list-style-type: none"> <li>• Very resistant to heat, abrasion &amp; chemicals. tamper evident: manipulation leaves visible trace</li> <li>• Flexible formatting &amp; label design: marking and cutting by the laser</li> <li>• Compliance with UL standards</li> </ul>
<b>Specialty mounting (structural component, drivetrain)</b>					
<b>Design ornament, emblem and label mounting</b>					
tesa® 4965	Biomass-balanced	Post consumer recycled PET	MOPP	205 µm	<ul style="list-style-type: none"> <li>• Suitability for most demanding applications such as heavy stress, high temperatures or critical substrates</li> <li>• Certified by UL standard 969 (UL file: MH 18055)</li> <li>• Total of 62% biocarbon content (including red MOPP liner)</li> </ul>
tesa® 755xx	Tackified acrylic	-	White PE coated paper transparent PET branded brown glassine	50 - 125 µm	<ul style="list-style-type: none"> <li>• Good initial adhesion to a wide variety of substrates. Good temperature &amp; humidity resistance. Excellent conformability</li> <li>• Good die cutting properties</li> <li>• Low VO &amp; compliance with UL standards</li> </ul>
<b>Gravel protector mounting</b>					
tesa® 7048	Pure acrylic	Filled acrylic	-	2,000 µm	<ul style="list-style-type: none"> <li>• High adhesion levels with the ability to absorb and dissipate high dynamic loads</li> <li>• The viscoelastic core of this product is able to compensate for thermal elongations of bonded parts</li> <li>• Performs well on "hard-to-bond-materials" such as powder coatings or plastic materials</li> </ul>

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