



tesa's

Packaging Tapes

Contributing to Sustainability



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tesa® 60408

tesa® 4513

tesa® 4713

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Our motivation

We have set ourselves the goal of continuously developing innovative packaging tapes that contribute to our customers' sustainability agenda.

We are committed to significantly enhancing the product sustainability for our packaging tape assortment by increasing the use of bio-based and recycled materials such as natural rubber and paper.

For our packaging tapes, we incorporate step by step responsibly sourced raw materials as well as improvements on the end of their useful life (recycling-friendly tapes).

Finally, we want to continue showing our customers that packaging tapes can contribute to sustainability and provide a reliable performance at the same time.





Our Ambition

We have ...

... set our sights on introducing innovative solutions that allow our customers to make their own processes and products more sustainable.

#forasustainablefuture



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Packaging tapes contributing to sustainability

Filmic-based packaging tapes

Paper-based packaging tapes



tesa® 60412

Max.30kg



tesa® 60400

Max.30kg



tesa® 4713

Max.10 kg



tesa® 4513

Max.15kg



tesa® 4313

Max.15 kg



tesa® 60408

Max.20 kg



tesa® 60013

Over 20 kg

70% PCR PET backing	PLA backing from 100% renewable feedstock	Fine crepe paper from well managed and other controlled source	Robust paper backing from well managed and other controlled source	Paper backing from well managed and other controlled source	Strong, robust and highly conformable creped paper backing from well managed and other controlled source	Paper backing with fiber-glass scrim reinforcement
Water-born acrylic adhesive	Natural rubber adhesive with natural biobased resin	Natural rubber adhesive	Synthetic rubber adhesive	Synthetic rubber adhesive	Natural rubber adhesive with bio-based resin	Synthetic rubber adhesive with tamper evident effect
Recycling friendly	98% bio-based carbon content for lower CO ₂ emissions	Recycling friendly	Recycling friendly Silicone free coating	Recycling friendly Silicone free coating	Recycling friendly Silicone free coating 92% bio-based carbon content for lower CO ₂ emissions	Recycling friendly
Printable with all ink systems	Printable	Printable (Corona needed)	Printable with all ink systems	Printable with all ink systems	Printable with all ink systems	Not printable
100% recycled core	100% recycled core	100% recycled core	100% recycled core	100% recycled core	100% recycled core	100% recycled core
High performance with recycled content and high sustainability contribution	High performance with recycled content and high sustainability contribution	Standard paper packaging tape with basic sustainability contribution	Premium paper packaging tape with standard sustainability contribution	High performing paper packaging tape with high sustainability contribution	Paper for heavy duty with basic sustainable contribution	

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tesa® 60408

tesa® 60408 is a premium paper packaging tape based on a FSC™-certified paper backing and a natural rubber adhesive with a 100% bio-based resin.

The premium paper backing material chosen for tesa® 60408 in combination with a well-performing natural rubber adhesive makes this product the perfect solution for light- and medium-weight packaging applications (max. 20 kg).

tesa® 60408 has a total bio-based carbon content of 92% and it has been awarded with the highest biocarbon content rating from DIN CERTCO (> 85%).

With tesa® 60408 we do not only offer a packaging tape with an excellent performance, but also advanced alternative contributing to sustainability.



For challenging customers...

tesa® 60408 is a paper packaging tape featuring a premium paper backing and a well functioning natural rubber adhesive.

The premium paper backing of tesa® 60408 is tear-resistant with a high tensile strength. Thanks to the silicone-free release coat a very good printability with all types of ink systems is secured (externally tested).

The well-performing natural rubber adhesive provides strong adhesion and good initial tack on a wide variety of carton qualities.

tesa® 60408 is the perfect solution for light- and medium-weight packaging applications (max. 20 kg) and it is suitable for manual and automatic dispensers.



...striving for sustainability.

The premium paper backing used for tesa® 60408 is made with paper from well managed FSC™-certified forests and other controlled sources.

The adhesive system of tesa® 60408 is based on a natural rubber adhesive featuring a 100% bio-based resin.

This product is based on a solvent-free coating technology and thanks to the smart choice of raw materials and its outstanding product design, our new tesa® 60408 has a total bio-based carbon content of 92% (certified by DIN CERTCO).

tesa® 60408 is a recycling-friendly packaging tape, as it can be disposed with the carton in the paper bin without endangering the cardboard recycling process (according to INGEDE method 12 certification).



tesa® 60408 Product Design

Backing

FSC™-certified
paper

Adhesive

Natural rubber

Color

Havana

Thickness

125 µm
100 µm*

Adhesion steel

2.8 N/cm

Tensile strength

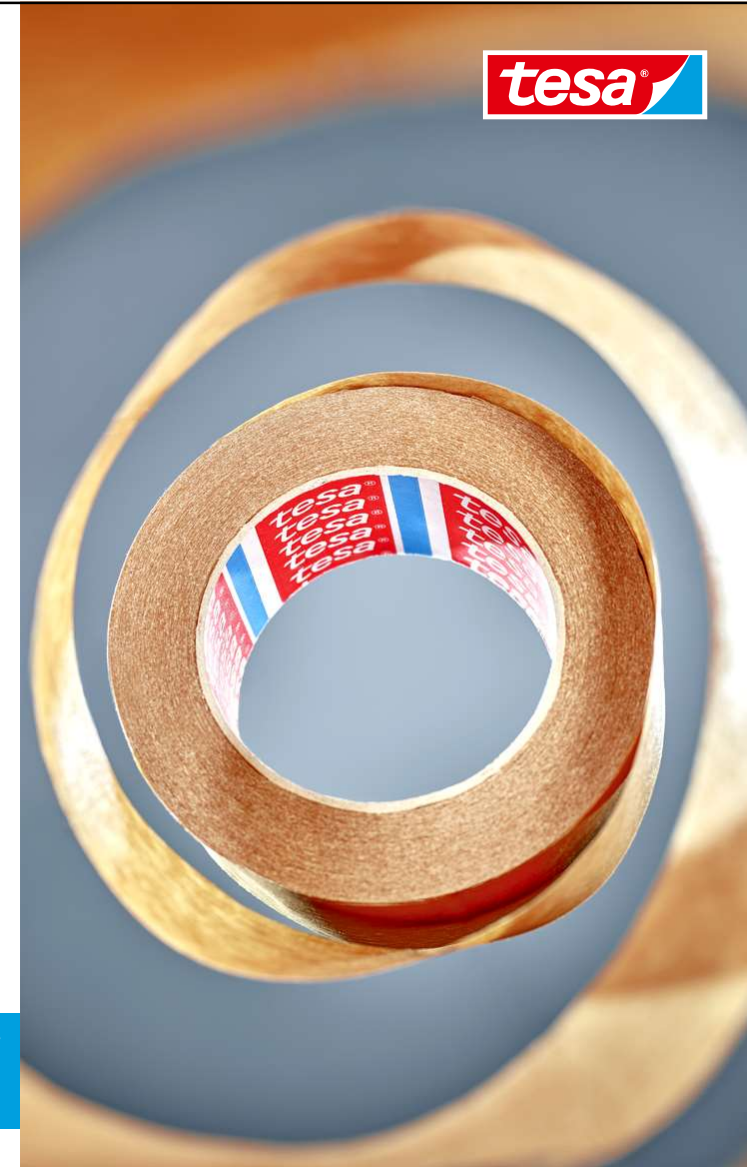
60 N/cm

Elongation at break

8%

High performing paper packaging tape with the highest sustainability contribution from the complete packaging assortment!

* Backing thickness



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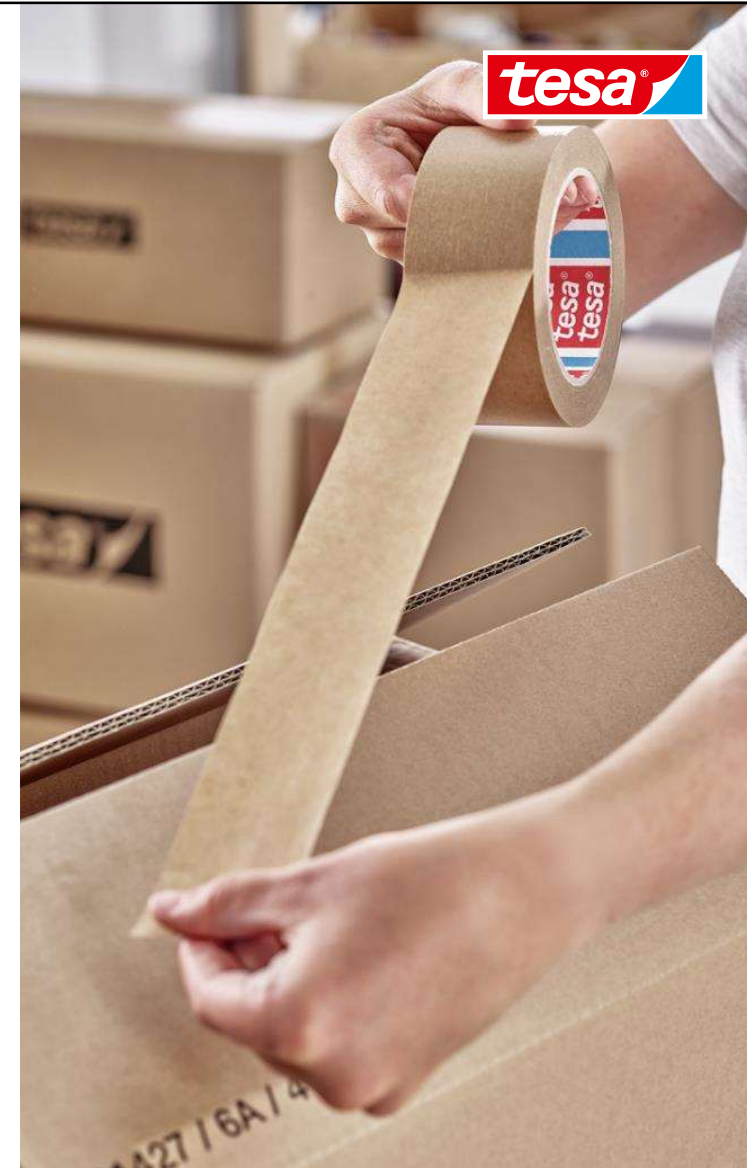
tesa® 60013

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tesa® 4513

- tesa® 4513 is a paper-based packaging tape featuring a premium paper backing with a silicone-free release coat and high-performing synthetic rubber adhesive.
- The paper backing of tesa® 4513 is made with paper from well managed FSC™-certified forests and other controlled sources.
- tesa® 4513 can be disposed together with the box into the paper bin without endangering the cardboard recycling process (INGEDE method 12) and its production process is solvent-free.
- The combination of this premium paper backing, and our unique synthetic rubber adhesive makes tesa® 4513 the perfect solution for light- and medium-weight packaging applications (max. 15 kg).



For demanding customers...

- tesa® 4513 features a premium paper backing with remarkable technical properties such as its tensile strength and its resistance to impacts. Thanks to the silicone-free release coat, an excellent printability is granted.
- The high-performing synthetic rubber adhesive ensures a secure seal on a wide variety of cardboard qualities. Thanks to the high initial tack, a tamper-evident effect is achieved when removing the tape from the cardboard.
- tesa® 4513 is the perfect tape for light- and medium-weight packaging applications (max. 15 kg) for those customers looking for a reliable product alternative to filmic-based packaging tapes.



...striving for sustainability.

- The paper backing of tesa® 4513 is made with paper from well managed FSC™-certified forests and other controlled sources.
- tesa® 4513 is a recycling-friendly packaging tape, as it can be disposed with the carton into the paper bin without endangering the cardboard recycling process (certified).
- The production process for tesa® 4513 is solvent-free.



tesa® 4513 Product Design

Backing

FSC™-certified
paper

Adhesive

Synthetic rubber

Color

Havana

Thickness

105 µm
80 µm*

Adhesion steel

8.5 N/cm

Tensile strength

70 N/cm

Elongation at break

3%

Superior paper packaging tape with good performance and with the standard sustainability contribution.

* Backing thickness



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tesa® 4713

- tesa® 4713 is a paper-based packaging tape featuring a paper backing with a natural rubber adhesive.
- The paper backing of tesa® 4713 is made with paper from well managed FSC™-certified forests and other controlled sources.
- tesa® 4713 can be disposed together with the box into the paper bin without endangering the cardboard recycling process (INGEDE method 12) and its production process is solvent-free.
- tesa® 4713 is the perfect tape for light-weight packaging applications (max. 10 kg) for those customers looking for a reliable product alternative to filmic-based packaging tapes.
- tesa® 4713 is printable for most ink systems (with a Corona pre-treatment)
- Suitable for customer that are starting the transition towards sustainability



tesa[®] 4713 Product Design

Backing

FSC[™]-certified paper

Adhesive

Natural rubber

Color

Havana and White

Thickness

125 μm
94 μm^*

Adhesion steel

2.8 N/cm

Tensile strength

30 N/cm

Elongation at break

10%

Standard paper packaging tape with the basic sustainability contribution.

* Backing thickness



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tesa® 4313

- tesa® 4313 is a premium packaging tape featuring a paper backing with a silicone-free release coat and a solvent-free synthetic rubber adhesive
- The premium backing of tesa® 4313 is made with paper from well managed FSC®-certified forests and other controlled sources
- tesa® 4313 can be disposed together with the box in the blue bin without endangering the cardboard recycling process (certified)
- tesa® 4313 is available in two different coating weights (PV10 and PV12) and in two different colors (havana and white)



tesa® 4313 (PV12) Product Design

Backing

FSC™-certified
paper

Adhesive

Synthetic rubber

Color

Havana and White

Thickness

125 µm
95 µm*

Adhesion steel

9.5 N/cm

Tensile strength

60 N/cm

Elongation at break

6%

Premium paper packaging tape with outstanding performance and with the standard sustainability contribution.

* Backing thickness



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tesa® 60013

- tesa® 60013 is a self-adhesive packaging tape with a siliconized fiberglass reinforced kraft paper backing and a synthetic rubber adhesive system
- The high-performing adhesive system in combination with the fiberglass reinforced paper backing makes tesa® 60013 the perfect alternative for heavy-duty packaging applications (> 25 kg)
- tesa® 60013 not only provides an outstanding performance but it is also a packaging tape with a sustainable contribution, as it can be disposed together with the box without endangering the cardboard recycling process (certified)
- The highly cohesive and aggressive adhesive system ensures a tamper-evident seal when removing this tape from the box



tesa® 60013 Product Design

Backing

Reinforced with
fiberglass kraft
paper

Adhesive

Synthetic rubber

Color

Havana

Thickness

200 µm
165 µm*

Adhesion steel

>11 N/cm

Tensile strength

125 N/cm

Elongation at break

6%

Standard paper packaging tape with the basic sustainability contribution.

* Backing thickness



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tesa® 60412

tesa® 60412 is a general-purpose packaging tape based on a 70% Post-Consumer Recycled (PCR) PET backing and a waterborne acrylic adhesive.

tesa® 60412 features a strong backing material with excellent mechanical properties and an acrylic adhesive, making this product the perfect solution for light- and medium-weight packaging applications (max. 30 kg).

With tesa® 60412 we do not only offer a packaging tape with an outstanding performance, but also an advanced alternative contributing to sustainability.

This product has a silent and smooth unwinding, and it is printable with all types of ink systems.





For demanding customers...

tesa® 60412 is a high-quality packaging tape featuring a 36µm recycled PET backing (70% recycled content) and a well-balanced and high-performing waterborne acrylic.

The recycled PET backing provides an excellent thermal stability and tensile strength. It also has excellent moisture barrier properties, good clarity and an outstanding chemical stability.

The high-performing waterborne adhesive system ensures a secure seal on a wide variety of cardboard qualities.

The combination of recycled PET and waterborne acrylic ensures a low noise unwind and an excellent printability with all types of ink systems.

tesa® 60412 is the perfect solution for light- and medium-weight packaging applications (<30 kg) where a premium performance is required.

...striving for sustainability.

The backing for tesa® 60412 is made from PET film with 70% Post-Consumer Recycled (PCR) content. With the use of recycled PET as backing material we contribute to the environment by increasing the use of recycled content.

With tesa® 60412 we want to support our customers to reduce their use of non-recycled fossil fuel-based plastics as part of their packaging solutions.

tesa® 60412 is a recycling-friendly packaging tape, as it can be disposed with the carton in the paper bin without endangering the cardboard recycling process (INGEDE method 12 certification).

The production process for tesa® 60412 is solvent-free.



tesa® 60412 Product Design

Backing

Recycled PET
(70% Post-Consumer Recycled
content in backing)

Adhesive

**Waterborne
acrylic**

Color

Transparent
(brown & white possible)

Thickness

**56µm
36µm***

Adhesion steel

3.0 N/cm

Tensile strength

60 N/cm

Elongation at break

130%

High performance filmic packaging tape with recycled content in the backing and good sustainability contribution.

* Backing thickness



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tesa® 60400

Very high bio-based carbon content measured in the industry

- Total bio-based carbon content of 98%
- Very high bio-based rating from DIN-CERTCO and TÜV AUSTRIA
- Unique product in the packaging tape market

Lower CO₂ footprint compared to fossil-based packaging tapes

- Lower greenhouse emissions throughout the whole value chain
- Excellent alternative for fossil-based packaging tapes
- Solvent-free production process

Outstanding performance

- Perfect solution for medium-weight applications (15-30 kg)
- Strong and reliable seal on all cardboard surfaces
- Secure storage under challenging conditions



...lower CO₂ emissions

The use of PLA instead of fossil-based BOPP or PVC leads to a potential CO_{2eq.} reduction for the backing material of:

- 15-20%* CO_{2eq.} reduction when replacing BOPP by PLA as the backing material**
- 30-35%* CO_{2eq.} reduction when replacing PVC by PLA as the backing material**

*The savings potential of the overall product considering specific information of the film manufacturing process will be lower, but remains to be determined

** Carbon footprint calculations refer to cradle-to-grave systems evaluated according to IPCC AR5 GWP100 (incl. land use change) and take into account generic information on film production



tesa® 60400 Product Design

Backing

Polylactite (PLA)

Adhesive

Natural rubber

Color

Transparent

Thickness

**55 µm
30 µm***

Adhesion steel

3.5 N/cm

Tensile strength

30 N/cm

Elongation at break

185%

High performing tape with 100% backing material made from renewable resources and a total of 98% bio-based carbon content.

* Backing thickness



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tesa® 4713
Standard Paper CST



tesa® 4313
Premium paper CST



tesa® 60412
Recycled PET CST



tesa® 60408
Bio-Based Paper



January
2021

April
2021

October
2021

June
2022

November
2022

Q1
2023



tesa® 60400
Bio & Strong



tesa® 60013
Filament CST



tesa® 4513
Superior Paper CST



tesa® 60013
FSC Relaunch



We help our customers to realize their sustainability agenda and we do so by contributing with our innovative packaging tapes.

Product Positioning for Packaging Tapes

tesa® 60412

- High adhesion and strength
- Backing with 70% PCR PET
- Printable with all ink types of inks

tesa® 60408 NEW

- High good adhesion - perfect solution for medium-weight applications
- 92% bio-based content
- Printable with all types of inks

tesa® 4513

- Very good adhesion and initial tack
- Suitable for medium-weight applications
- Printable with all types of inks

tesa® 4713

- Good adhesion and initial tack
- Suitable for light weight applications
- Printable with certain type of inks



tesa® 60013

tesa® 60412
tesa® 60400



tesa® 4313 PV12

tesa® 60408



tesa® 4513

tesa® 4313 PV10



tesa® 4713



tesa® 60013

- Very high adhesion and initial tack
- Fiberglass reinforced paper backing
- Perfect solution for heavy-duty packaging applications

tesa® 60400

- High adhesion on most cardboard qualities
- 98% bio-based content and 100% from renewable feedstock
- Printable with some types of ink

tesa® 4313 PV12

- High adhesion and initial tack
- Perfect solution for medium-weight applications
- Printable with all types of inks

tesa® 4313 PV10

- Very good adhesion and initial tack
- Suitable for medium-weight applications
- Printable with all types of inks



Thank you

Sergiu Crisan

Region Europe Category Manager

Packaging and Repair Tapes

Industrial Trade and Converting

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www.tesa.com





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