tesa® 4965 Original Next Gen

Product Information

205µm/8.1 mils double-sided transparent PET film tape

Product Description

tesa® 4965 Original is a transparent, double-sided industrial mounting tape consisting of a PET backing and a tackified acrylic adhesive. Its adhesive technology is based on a patented and protected product formulation. Across all industries, tesa® 4965 Original is used to improve processes and applications. Based on tesa® 4965's patented and protected technology, its unique performance is demonstrated through outstanding qualities such as versatility, durability, and safety. The double-sided industrial mounting tape is able to withstand numerous environmental factors such as humidity, UV light, and temperatures of up to 200°C / 392°F for limited periods of time. The tackified acrylic adhesive offers excellent hold on various surfaces, high tack, and good shear strength.

Several products are equipped with this unique and high-performing product design. Together, these products make up Team 4965. This double-sided film tape assortment helps to easily select the most efficient tape based on customer demands, products, and processes. Explore the benefits of the full tesa® 4965 assortment here: https://www.tesa.com/en-us/industry/general-applications/mounting/team-4965-assortment.

Sustainable Aspects

- tesa® 4965 Original Next Gen with -40% CO_2 emissions compared to tesa® 4965 Original
- Biomass balanced tackified acrylic adhesive
- 90% PCR PET in the backing

For more information: https://www.tesa.com/product-sustainability

Product Features

- Suitability for critical demands such as heavy stress and high temperatures
- Skin contact certification according to ISO 10993-5 and ISO 10993-10
- In accordance with UL standard 969. UL file: MH 18055
- Reliable bond even on low surface energy surfaces
- Immediate usability right after assembly
- Certified according to DIN EN 45545-2 fulfilling 2R1+HL3

Application Fields

- tesa® 4965 Original is used across all industries
- ABS plastics-parts mounting for the car industry
- Self-adhesive mounting for rubber/EPDM profiles
- Decorative molding and profile mounting in the furniture industry
- Battery pack, lens, and touch-screen mounting for electronic devices

For latest information on this product please visit http://l.tesa.com/?ip=04965

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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	PET film
Bio-based carbon content of liner (acc. DIN EN 16640)	90 %
Type of adhesive	tackified acrylic
Type of liner	TPP
Total thickness	205 µm 8.1 mils
Color	transparent
Color of liner	red

Properties/Performance Values

Elongation at break	50 %
Tensile strength	20 N/cm 11.4 lbs/in
Ageing resistance (UV)	good
Chemical Resistance	good
Humidity resistance	very good
Softener resistance	good
Static shear resistance at 23°C	very good
Static shear resistance at 40°C	very good
Tack	good
Temperature resistance long term	100 °C 212 °F
Temperature resistance min.	-40 °C -40 °F
Temperature resistance short term	200 °C 392 °F

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Adhesion to Values

- ABS (initial) 10.3 N/cm 94.1 oz/in
- ABS (after 14 days) 12 N/cm 109.6 oz/in
- Aluminium (initial) 9.2 N/cm 84.1 oz/in
- Aluminium (after 14 days) 10.6 N/cm 96.8 oz/in
- PC (initial) 12.6 N/cm 115.1 oz/in
- PC (after 14 days) 14 N/cm 127.9 oz/in
- PE (initial) 5.8 N/cm 53 oz/in
- PE (after 14 days) 6.9 N/cm 63 oz/in
- PET (initial) 9.2 N/cm 84.1 oz/in
- PET (after 14 days) 9.5 N/cm 86.8 oz/in
- PP (initial) 6.8 N/cm 62.1 oz/in
- PP (after 14 days) 7.9 N/cm 72.2 oz/in
- PS (initial) 10.6 N/cm 96.8 oz/in
- PS (after 14 days) 12 N/cm 109.6 oz/in
- PVC (initial) 8.7 N/cm 79.5 oz/in
- PVC (after 14 days) 13 N/cm 118.8 oz/in
- Steel (initial) 11.5 N/cm 105.1 oz/in
- Steel (after 14 days) 11.8 N/cm 107.8 oz/in

Certificates

Sustainability Certificates
tesa® 4965 Original Next Gen contains a total of 62% biocarbon content (including red MOPP liner), which is composed of 20% bio-based carbon content directly derived from biological sources and 42% bio-attributed carbon content from the use of biomass balanced adhesive components that are ISCC PLUS certified.

The double-sided mounting tape contains a 90% recycled PET backing, resulting in an average of 5% post-consumer recycled content (including red MOPP liner) in the tape. This is 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.

Additional Information

Liner variants:

- PV0: red MOPP-film (80 µm / 3.1 mils; 72g/m^2)
- PV1: brown glassine paper (69 µm / 2.7 mils; 80g/m^2)
- PV2: brown glassine paper (78 µm / 3.1 mils; 90g/m^2)
- PV4: branded white paper liner (104 µm / 4.1 mils; 120g/m^2)
- PV8: white MOPP friction liner (80 µm / 3.1 mils; 72g/m^2)

For spools, it is recommended to use tesa® dispensers to achieve optimal results.

According to VDA278 analysis, tesa® 4965 does 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).

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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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