



Repositionable Tapes

665 • 666 • 9415PC • 9416 • 9425 • 9425HT • 9449S

Technical Data

January, 2011

Product Description 3M™ Repositionable Tapes are double coated tapes that are ideal for applications where one or both parts need to be repositioned or removed easily.

Construction

| Product | 3M™ Repositionable Tape 665 | 3M™ Repositionable Tape 666 | 3M™ Repositionable Tape 9415PC | 3M™ Repositionable Tape 9416 | 3M™ Repositionable Tape 9425 | 3M™ Repositionable Tape 9425HT | 3M™ Repositionable Tape 9449S |
|---|-----------------------------------|-----------------------------------|--|------------------------------------|------------------------------------|--|-------------------------------------|
| Adhesive Type: Faceside ¹ | 400 | 1070 | 400 | 400 | 420 | 420 | 1000 |
| Backside ² | 1070 | 400 | 1000 | 1000 | 1050 | 1050 | — |
| Carrier: | 0.0014 in. (0.036 mm) UPVC | 0.0014 in. (0.036 mm) UPVC | 0.001 in. (0.025 mm) Clear Polyester | Tissue | 0.0014 in. (0.036 mm) UPVC | 0.001 in. (0.025 mm) Clear Polyester | None |
| Release Liner: | None | White Polyethylene | 70# White Polycoated Kraft | 70# White Polycoated Kraft | 58# Natural Polycoated Kraft | 58# Natural Polycoated Kraft | 55# Densified Kraft Paper |
| Thickness: Tape | 0.0035 in. (0.089 mm) | 0.0035 in. (0.089 mm) | 0.002 in. (0.050 mm) | 0.002 in. (0.050 mm) | 0.0058 in. (0.15 mm) | 0.0054 in. (0.13 mm) | 0.0004 in. (0.01 mm) |
| Liner | — | 0.003 in. (0.076 mm) | 0.0056 in. (0.14 mm) | 0.0056 in. (0.14 mm) | 0.0042 in. (0.10 mm) | 0.0042 in. (0.10 mm) | 0.0025 in. (0.063 mm) |
| Tape Color: | Clear | Clear | Translucent | White | Clear | Clear | Translucent |

Note 1: Faceside adhesive is on the interior of the roll, exposed when unwound.

Note 2: Backside adhesive is on the exterior of the roll, exposed when liner is removed.

3M™ Repositionable Tapes

665 • 666 • 9415PC • 9416 • 9425 • 9425HT • 9449S

Typical Physical Properties

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

| Product | 3M™ Repositionable Tape 665 | 3M™ Repositionable Tape 666 | 3M™ Repositionable Tape 9415PC | 3M™ Repositionable Tape 9416 | 3M™ Repositionable Tape 9425 | 3M™ Repositionable Tape 9425HT | 3M™ Repositionable Tape 9449S |
|--|-----------------------------------|-----------------------------------|--------------------------------------|------------------------------------|------------------------------------|--------------------------------------|-------------------------------------|
| Adhesion to Steel: (ASTM D3330, 180° peel modified, 72 hour dwell) | | | | | | | |
| Faceside | 25 oz./in. (27 N/100 mm) | 23 oz./in. (25 N/100 mm) | 50 oz./in. (54 N/100 mm) | 50 oz./in. (54 N/100 mm) | 45 oz./in. (49 N/100 mm) | 45 oz./in. (49 N/100 mm) | 5 oz./in.* (9 N/100 mm) |
| Backside | 23 oz./in. (25 N/100 mm) | 25 oz./in. (27 N/100 mm) | 3 oz./in. (5.4 N/100 mm) | 3 oz./in. (5.4 N/100 mm) | 12 oz./in. (13 N/100 mm) | 12 oz./in. (13 N/100 mm) | — |
| Relative High Temperature Operating Ranges: | | | | | | | |
| | 125°F (52°C) | 125°F (52°C) | 158°F (70°C) | 158°F (70°C) | 125°F (52°C) | 250°F (121°C) | 158°F (70°C) |
| Relative Solvent Resistance: | | | | | | | |
| | Good | Good | Fair | Fair | Good | Good | Fair |
| U.V. Resistance: | | | | | | | |
| | Excellent | Excellent | Good | Good | Excellent | Excellent | Good |

*3M tape 9449 tested with 90 degree peel using 2 mil polyester backing.

Available Sizes

| Product | 3M tape 665 | 3M tape 666 | 3M tape 9415PC | 3M tape 9416 | 3M tape 9425 | 3M tape 9425HT | 3M tape 9449S |
|--|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| Available Lengths (Subject to Minimum Order Requirements): | | | | | | | |
| Standard | 72 yds. (65.8 m) | 72 yds. (65.8 m) | 72 yds. (65.8 m) | 72 yds. (65.8 m) | 72 yds. (65.8 m) | 72 yds. (65.8 m) | 72 yds. (65.8 m) |
| Maximum In: | | | | | | | |
| 1/4" to 5/16" widths | 108 yds. (98.8 m) | 72 yds. (65.8 m) | 144 yds. (132 m) | 144 yds. (132 m) | 72 yds. (65.8 m) | 72 yds. (65.8 m) | 144 yds. (132 m) |
| 3/8" to 7/16" widths | 288 yds. (263 m) | 108 yds. (98.8 m) | 144 yds. (132 m) | 144 yds. (132 m) | 144 yds. (132 m) | 144 yds. (132 m) | 144 yds. (132 m) |
| 1/2" to 3" widths | 288 yds. (263 m) | 108 yds.** (98.8 m) | 432 yds. (395 m) | 360 yds. (329 m) | 450 yds. (411 m) | 288 yds. (263 m) | 360 yds. (329 m) |
| Greater than 3" | 288 yds. (263 m) | 108 yds. (98.8 m) | 432 yds. (395 m) | 360 yds. (329 m) | 288 yds. (263 m) | 288 yds. (263 m) | 360 yds. (329 m) |
| Available Widths (Subject to Minimum Order Requirements): | | | | | | | |
| Minimum | 1/4 in. (25.4 mm) | 1/4 in. (25.4 mm) | 1/4 in. (25.4 mm) | 1/4 in. (25.4 mm) | 1/4 in. (25.4 mm) | 1/4 in. (25.4 mm) | 1/4 in. (25.4 mm) |
| Maximum | 46 in. (1168 mm) | 46 in. (1168 mm) | 47 in. (1194 mm) | 47 in. (1194 mm) | 48 in. (1219 mm) | 48 in. (1219 mm) | 48 in. (1219 mm) |
| Normal Slitting Tolerance: | | | | | | | |
| | ± 1/32 in. (0.8 mm) | ± 1/32 in. (0.8 mm) | ± 1/32 in. (0.8 mm) | ± 1/32 in. (0.8 mm) | ± 1/32 in. (0.8 mm) | ± 1/32 in. (0.8 mm) | ± 1/32 in. (0.8 mm) |
| Core Size (ID): | | | | | | | |
| | 3.0 in. (76.2 mm) | 3.0 in. (76.2 mm) | 3.0 in. (76.2 mm) | 3.0 in. (76.2 mm) | 3.0 in. (76.2 mm) | 3.0 in. (76.2 mm) | 3.0 in. (76.2 mm) |

**Liner of 3M tape 666 will be skip slit within these width limits unless otherwise noted in the special instruction section of your order.

3M™ Repositionable Tapes

665 • 666 • 9415PC • 9416 • 9425 • 9425HT • 9449S

Features

- 3M™ Repositionable Tapes 665 and 666 have a medium tack adhesive on both sides of the tape.
 - Good adhesive anchorage to the film carrier provides one-piece tape removal from many surfaces.
 - Slight side-to-side adhesion differential, therefore specific side removal can be accomplished if applied properly.
 - The higher tack side of 3M tape 665 is on the face side (interior of roll).
 - The higher tack side of 3M tape 666 is on the lined or back side (exterior of roll).
 - The linerless feature of 3M tape 665 can help simplify manual or automatic dispensing. No special liner removal equipment is required.
 - The complete plastic construction of both tapes provides a hot wire cuttable feature for plastic packaging.
- 3M™ Repositionable Tapes 9415PC and 9416 have a low tack adhesive on the back side (exterior of roll) and a high tack (“permanent”) adhesive on the face side (interior of roll). This means liner covers the low tack adhesive and the high tack adhesive is exposed when the tape is unwound.
 - The low tack adhesive side allows for removal from many films, foils, and papers and will not cause delamination from most paper stock. In many cases this side can be reused numerous times. The user should perform specific tests to determine the product’s suitability for the particular application.
 - Flexible materials will adhere better to the low tack adhesive than will rigid materials (e.g. paper vs. cardboard). It may also be necessary to remove curl from certain materials to avoid material separation from the tape over time.
 - 3M™ Repositionable Tape 928 is identical to 3M tape 9416 for the hand-held ATG applicator.
- 3M™ Repositionable Tapes 9425 and 9425HT have a medium tack adhesive on the back side (exterior of roll) and a high tack (“permanent”) adhesive on the face side (interior of roll) of the tape. This means liner covers the medium tack adhesive and the high tack adhesive is exposed when the tape is unwound.
 - The medium-tack adhesive allows removal from many foils and films without adhesive residue. In many cases, the tape can be reused numerous times. The user should perform specific tests to determine the product’s suitability for the particular application.
 - The moisture stable liner improves processing of parts and ease of liner removal.
 - The polyester film carrier of 3M tape 9425HT provides dimensional stability, improved handling for die cutting and laminating, as well as providing higher temperature resistance.
- 3M™ Repositionable Tape 9449S is a single lined low tack laminating adhesive.
 - The liner is non-siliconized on the back side (adhesive side) which allows for the construction of custom labels that are easier to handle, consistently maintaining registration on-press when printing and converting.
 - The low tack allows easy removal of labels from substrates with little or no adhesive residue.

3M™ Repositionable Tapes

665 • 666 • 9415PC • 9416 • 9425 • 9425HT • 9449S

Application Techniques

Bond strength is dependent upon the amount of adhesive-to-surface contact developed. Firm application pressure helps develop better adhesive contact and improve bond strength.

To obtain optimum adhesion, the bonding surfaces must be clean, dry and well unified. Some typical surface cleaning solvents are isopropyl alcohol or heptane.*

***Note:** Carefully read and follow the manufacturer's precautions and directions for use when using solvents.

Ideal tape application temperature range is 70°F to 100°F (21°C to 38°C). Initial tape application to surfaces at temperatures below 50°F (10°C) is not recommended because the adhesive becomes too firm to adhere readily. However, once properly applied, low temperature holding is generally satisfactory. An exception is 3M™ Repositionable Tapes 9425 and 9425HT which can be applied at temperatures as low as 32°F (0°C).

Application Ideas

- Reclosable bags or envelopes.
- Core starting and end tabbing of papers, foils, and films.
- Removable stickers and labels.
- Point of purchase displays.
- Book inserts.
- Mounting promotional items.
- Removable/changeable advertisements.
- Temporary hold for protective packaging material, such as foam or cardboard, used during shipment of manufactured goods.
- Removable/changeable foam gasketing.

Storage

Store in original cartons at 70°F (21°C) and 50% relative humidity.

Shelf Life

If stored under proper conditions, these products retain their performance and properties for two years from date of manufacture.

3M™ Repositionable Tapes

665 • 666 • 9415PC • 9416 • 9425 • 9425HT • 9449S

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. Given the variety of factors that can affect the use and performance of a 3M product, user is solely responsible for evaluating the 3M product and determining whether it is fit for a particular purpose and suitable for user's method of application.

Warranty, Limited Remedy, and Disclaimer

Unless an additional warranty is specifically stated on the applicable 3M product packaging or product literature, 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. 3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE. If the 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement of the 3M product or refund of the purchase price.

Limitation of Liability

Except where prohibited by law, 3M will not be liable for any loss or damage arising from the 3M product, whether direct, indirect, special, incidental or consequential, regardless of the legal theory asserted, including warranty, contract, negligence or strict liability.

ISO 9001:2008

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2008 standards.



Industrial Adhesives and Tapes Division

3M Center, Building 225-3S-06
St. Paul, MN 55144-1000
800-362-3550 • 877-369-2923 (Fax)
www.3M.com/industrial



*Recycled Paper
40% pre-consumer
10% post-consumer*

3M is a trademark of 3M Company.
Printed in U.S.A.
©3M 2011 70070938561 (1/11)

Данный компонент на территории Российской Федерации

Вы можете приобрести в компании MosChip.

Для оперативного оформления запроса Вам необходимо перейти по данной ссылке:

<http://moschip.ru/get-element>

Вы можете разместить у нас заказ для любого Вашего проекта, будь то серийное производство или разработка единичного прибора.

В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

На всех этапах разработки и производства наши партнеры могут получить квалифицированную поддержку опытных инженеров.

Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: info@moschip.ru

Skype отдела продаж:

moschip.ru

moschip.ru_4

moschip.ru_6

moschip.ru_9