

# NON-CONDUCTIVE TAPES

FOR PRODUCT DETAILS AND COMPLETE SELECTIONS

[www.tedpella.com](http://www.tedpella.com)

## KAPTON® POLYIMIDE FILM, 3M™ TAPE 5413



This tape consists of a Kapton® polyimide film with a silicone adhesive designed for high temperature applications. Kapton® tape with silicone adhesive exhibits better adhesion to “difficult surfaces”, but at the same time the high adhesive film bond greatly reduces adhesive transfer to leave a cleaner surface. This tape can be used in harsh environments and has a specified temperature use range is -75° to +260°C (-100° to +500°F). However, successful applications have been

reported in the temperature range of -196° to +400°C (-321° to +752°F). Kapton® film thickness is 1.0mil (0.03mm), total tape thickness with adhesive is 2.7 mils (0.07mm). Standard 76mm (3” plastic core).

Applications are as diverse as tape for elevated temperatures, masking for protection of contacts on printed circuit boards during wave solder or dip solder process, masking during vacuum deposition and positioning tape for cryo applications. **T**

16089-6	19mm x 32.9m (3/4" x 36 yd) .....	each
16089-8	25.4mm x 32.9m (1" x 36 yd) .....	each
16089-12	50.8mm x 32.9m (2" x 36 yd) .....	each

## 3M™ POLYIMIDE FILM TAPE, LOW STATIC



This tape has a high temperature polyimide film backing and silicone adhesive. This tape is comparable with Kapton® Tape. It is specially treated for enhanced electrostatic discharge performance (electrostatic dissipative). Translucent gold. Temperature use range -75 to +260°C (-100°F to +500°F). Standard 76mm (3”) plastic core. Backing thickness 1.0 mil (0.03mm). Total tape thickness 2.7 mils (0.07mm).

Can be used at high temperatures in harsh environments such as masking circuit boards for wave soldering.

**M** = MSDS on web page **T** = Tech Note on web page

### With Liner:

16081-57	25.4mm x 32.9m (1" x 36 yd) .....	each
16081-58	49mm x 32.9m (2" x 36 yd) .....	each

### Without Liner:

16081-61	6.35mm x 32.9m (1/4" x 36 yd) .....	each
16081-63	12.7mm x 32.9m (1/2" x 36 yd) .....	each

## SINGLE SIDED KAPTON® POLYIMIDE TAPE



Consists of a thin film of polyimide with a custom formulated silicone adhesive on one side. Designed for use in harsh environments and offers high performance, reliability and durability. Material thickness of 2.5mil. Withstands high temperature up to 500°F.

16090-6	6.3mm x 32.9m (1/4" x 36 yrd) .....	each
16090-12	12.7mm x 32.9m (1/2" x 36 yrd) .....	each
16090-19	19mm x 32.9m (3/4" x 36 yrd) .....	each
16090-25	25.4mm x 32.9m (1" x 36 yrd) .....	each
16090-50	50.8mm x 32.9m (2" x 36 yrd) .....	each

## LOW STATIC SINGLE SIDED KAPTON® POLYIMIDE TAPE

Consists of a thin film of polyimide with a custom formulated silicone adhesive with an ESD additive to reduce static charge on one side. Designed for use in harsh environments and offers high performance, reliability and durability. Material thickness of 2.5mil. Withstands high temperature up to 500°F.

16092-6	6.3mm x 32.9m (1/4" x 36 yrd) .....	each
16092-12	12.7mm x 32.9m (1/2" x 36 yrd) .....	each
16092-19	19mm x 32.9m (3/4" x 36 yrd) .....	each
16092-25	25.4mm x 32.9m (1" x 36 yrd) .....	each
16092-50	50.8mm x 32.9m (2" x 36 yrd) .....	each

## DOUBLE SIDED KAPTON® POLYIMIDE TAPE

Consists of a thin film of polyimide double coated with a custom formulated silicone adhesive on one side. Designed to bond to silicone substrates and offers high performance, reliability and durability. Material thickness of 2.5mil. Withstands high temperature up to 500°F.

16087-12	12.7mm x 32.9m (1/2" x 36 yrd) .....	each
16087-19	19mm x 32.9m (3/4" x 36 yrd) .....	each
16087-25	25.4mm x 32.9m (1" x 36 yrd) .....	each

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## 3M™ 465 ADHESIVE TRANSFER TAPE



This tape is clear, 1/2" x 60 yards and 34" x 36 yards in length, has an adhesive thickness of 2.0mil (0.002") (50µm) and is clear. The 2-sided acrylic adhesive (high tack) also has a 4.0mil (100µm) 60 lb. densified Kraft paper liner. The adhesive film on the paper liner transfers to most surfaces

on contact. Remove the liner and the adhesive remains in place. Used for mounting or attaching. 76mm (3") core.

- 16077 12.7mm W x 54.8m L (1/2" x 60 yd)..... each
- 16077-2 19mm W x 32.9m L (3/4" x 36 yd)..... each

## 3M™ DOUBLE-COATED, REPOSITIONABLE TAPE, 666



The 666 repositionable tape is coated with a medium strength adhesive on both sides. Ideal for applications where one or both parts need to be repositioned or removed easily. This tape has a UVPVC carrier with a white polyethylene liner. Clear tape with excellent UV resistance and good solvent resistance. Non-conductive. Standard 76mm (3") core. Available in various sizes. #16080-6 is not boxed and has 65.8m (72 yd) length.

- 16080 19mm W x 32.9m L (3/4" x 36 yd)..... each
- 16080-1 9.5mm W x 32.9m L (3/8" x 36 yd)..... each
- 16080-3 25mm W x 32.9m L (1" x 36 yd)..... each
- 16080-6 12.7mm W x 65.8m L (1/2" x 72 yd)..... each

## 3M™ DOUBLE SIDED, REPOSITIONABLE TAPE, 9415PC



The 9415PC repositionable tape is coated with a strong acrylic adhesive on one side and a weak acrylic adhesive on the other side. Ideal for application where one side remains in position, but the other side needs repositioning, easy unloading or easy removal. Can be used for holding samples during processing and allow for easy and clean removal afterwards. This tape has a translucent polyester carrier with a liner of white

polycoated kraft. It is a relatively thin tape with a thickness of 50µm (0.002"). Good UV resistance and moderate solvent resistance. Nonconductive. Standard 76mm (3") core. Available in 19mm (3/4") width.

- 16090 19mm W x 65.8m L (3/4" x 72 yd)..... each



## 3M™ SILVER TAPE, NONCONDUCTIVE

Silver polyester tape is used for making ultramicrotome boats, and

for other applications. The tape is 1.0mil (0.025mm) thick. Acrylic adhesive is used. Standard 76mm (3") plastic core.

- 114-1 9.5mm W x 65.8m L (3/8" x 72 yd)..... each
- 114-12 12.7mm W x 65.8m L (1/2" x 72 yd)..... each

## 3M™ WEATHER RESISTANT FILM TAPE, 838

*Long term weather resistant and protecting applications.*



This tape can be used for many long-term weather resistant and protecting requirements. It is a white Tedlar® PVD with acrylic adhesive. Good aging properties because it contains no plasticizers. It remains tough and flexible over a broad temperature range.

The properties of Tedlar® film include excellent resistance to weathering, outstanding mechanical properties and inertness toward a wide variety of chemicals, solvents and staining agents. Tedlar® film tape is strong, flexible and fatigue resistant. Can be certified to meet Mil Spec MIL-T-22085, Amendment 3, Type IV.

Temperature use range: -100° to 225°F (-73° to 107°C)

Further typical physical properties are listed on 3M™ Technical Sheet (*see website*).

- 16081-5 2.5cm W x 65.8m L (1.0" x 72 yd)..... each
- 16081-6 3.8cm W x 65.8m L (1.5" x 72 yd)..... each
- 16081-7 5.0cm W x 65.8m L (2.0" x 72 yd)..... each