



High Performance Protection

Advanced temperature-resistant tapes for protecting electronic and electrical components during fabrication and in use. Helps improve productivity and device reliability while providing dielectric protection.

3M™ Polyimide Film Protection Tapes are engineered to provide reliable performance under high temperatures and other harsh environmental conditions. Used for a variety of applications requiring temporary or permanent holding – including solder masking; dielectric insulation and gold finger protection. 3M polyimide film tapes are dimensionally stable at high temperatures, and release cleanly without leaving a sticky residue behind.

- 3M™ Non-silicone Polyimide Film Tape 7412B
- 3M™ Low Static Polyimide Film Tape 5433
- 3M™ General Purpose Polyimide Film Tape 7413TL



Tough Reliable Tapes – for today's toughest jobs

3M™ Polyimide Film Protection Tapes

Available in 3 unique lined configurations to enable die cutting and to give you the ideal balance of performance attributes that include:

- Outstanding resistance to high temperatures
- Solvent and UV resistance
- Extremely low electrostatic discharge
- Clean release at elevated temperatures



3M™ Polyimide Film Protection Tape combines excellent high temperature resistance with outstanding electrical insulation performance, for use in a variety of electronic device assembly and cable bonding applications. The scratch-resistant frost-black color backing on the non-silicone 3M™ Polyimide Film Tape 7412B makes it ideal for applications where improved aesthetics are desired.

Product/Color	Backing/Adhesive/Liner	Total Thickness mils (mm)	Adhesion to Steel	Temperature Range °F (°C)	Key Attributes	Applications
7412B/ Black	Polyimide/ Acrylic/ Polyester	3.2 (0.08)	12 N/25 mm	-40 to 68 (-40 to 155)	<ul style="list-style-type: none"> • High electric insulation performance • UV shielding • High temperature resistance • Anti-scratch surface • Provides dielectric insulation 	<ul style="list-style-type: none"> • High temperature electrical applications requiring a tough thin insulating material for use within electronic devices
5433/ Amber	Kapton® Polyimide/ Silicone/ Polyester	2.7 (0.07)	22 N/100 mm	-100 to 500 (-73 to 260)	<ul style="list-style-type: none"> • Extremely low electrostatic discharge properties • Dimensionally stable at high temperatures • Flame retardant and chemical resistant • RoHS and REACH compliant • Provides dielectric insulation 	<ul style="list-style-type: none"> • Mask for printed circuit boards during wave solder or solder dip process • Release surface in fabrication of parts cured at elevated temperature
7413TL/ Amber	Polyimide/ Silicone/ Polyester	2.4 (0.06)	20 N/100 mm	-100 to 500 (-73 to 260)	<ul style="list-style-type: none"> • Dimensionally stable at high temperature • Flame retardant, chemical and radiation resistant • High temperature performance reduces adhesive transfer 	<ul style="list-style-type: none"> • Masking for gold fingers of PCB during wave solder, solder reflow or solder dip process • Release surface in fabrication of parts cured at elevated temperatures.

Important Notice: Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use.

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