3M™ Polyimide Film Protection Tapes

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
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.

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

<table>
<thead>
<tr>
<th>Product/Color</th>
<th>Backing/Adhesive/Liner</th>
<th>Total Thickness mils (mm)</th>
<th>Adhesion to Steel</th>
<th>Temperature Range °F (°C)</th>
<th>Key Attributes</th>
<th>Applications</th>
</tr>
</thead>
</table>
| 7412B/Black   | Polyimide/Acrylic/Polyester | 3.2 (0.08)       | 12 N/25 mm       | -40 to 68 (-40 to 155) | • High electric insulation performance  
• UV shielding  
• High temperature resistance  
• Anti-scratch surface  
• Provides dielectric insulation | • High temperature electrical applications requiring a tough thin insulating material for use within electronic devices |
| 5433/Amber    | Kaptton® Polyimide/Silicone/Polyester | 2.7 (0.07)       | 22 N/100 mm       | -100 to 500 (-73 to 260) | • Extremely low electrostatic discharge properties  
• Dimensionally stable at high temperatures  
• Flame retardant and chemical resistant  
• RoHS and REACH compliant  
• Provides dielectric insulation | • 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) | • Dimensionally stable at high temperature  
• Flame retardant, chemical and radiation resistant  
• High temperature performance reduces adhesive transfer | • 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.

Warranty, Limited Remedy, Limited Liability: 3M’s product warranty is stated in its Product Literature available upon request. 3M MAKES NO OTHER WARRANTIES INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M’s option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of the legal theory asserted.