



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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3M™ Polyimide Film Tape 5413

Product Description

3M™ Polyimide Film Tape 5413 with DuPont™ Kapton® polyimide film and silicone adhesive used for PCB solder masking and other high temperature applications. This product is amber colored and 2.7 mil (69 microns) thick.

Features and Benefits

- The DuPont™ Kapton® polyimide film does not soften at elevated temperatures, thus the film provides an excellent release surface at elevated temperatures
- Is dimensionally stable at high temperatures, which helps reduce rework, helping to enable high productivity
- Is flame retardant, chemical and radiation resistant which helps protect surfaces to help reduce replacement costs
- The silicone adhesive's high temperature performance helps reduce adhesive transfer which helps to eliminate cleaning, enabling high productivity
- Polyethylene tape core instead of cardboard

Product Construction

3M™ Polyimide Film Tape 5413	
Backing	Dupont™ Kapton® Polyimide Film
Adhesive	Silicone
Color	Amber
Standard Roll Length	33 m (36 yd)

Application Ideas

- Mask for protection of gold fingers of printed circuit boards during wave solder or solder dip process.
- Release surface in fabrication of parts cured at elevated temperatures.



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.

3M™ Polyimide Film Tape 5413		
Property	Value	ASTM Test Method
Adhesion to Steel:	22 oz/in width (24 N/100 mm)	D-3330
Tensile Strength at Break:	33 lb/in width (578 N/100 mm)	D-3579
Elongation at Break:	62%	D-3579
Backing Thickness:	1.0 mil (0.03 mm)	D-3652
Total Tape Thickness:	2.7 mil (0.07 mm)	D-3652
Temperature Use Range:	-73° to 260°C (-100° to 500°F)	—
Dielectric Strength:	7000 volts	D-149
Outgassing:	%TLM = 1.50; %CVCN = 0.50	—
Flame Retardancy:	Pass	per UL-510 product category: 0ANZ2 File E230409

Key Attributes

Features	Advantages	Benefits
Thin DuPont™ Kapton® polyimide film	Dimensionally stable at high temperatures Flame retardant, chemical and radiation resistant	No rework – high productivity Helps protect surfaces, helping reduce replacement costs
Silicone adhesive	High temperature performance helps reduce adhesive transfer	Virtually no cleaning required – helps increase productivity
High adhesive to film bond	Helps reduce adhesive transfer	Virtually no cleaning required – helps increase productivity

Storage and Shelf Life

The shelf life of 3M™ Polyimide Film Tape 5413 is 36 months from the date of manufacture when stored in original cartons at 21°C (70°F) and 50% relative humidity.

Regulatory

For regulatory information about this product, contact your 3M representative.

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.

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