



TapeCase Ltd.
1982 Lunt Ave, Elk Grove Village, IL 60007
phone: (847) 299-7880
fax: (847) 299-7804
www.tapecase.com
sales@tapecase.com

3M

General Purpose Polyimide Film Tape

7413

Product Description 3M™ General Purpose Polyimide Film Tape 7413 is a tape consisting of a polyimide film and silicone adhesive designed for solder masking or other very high temperature applications.

Product Construction	Backing Length	Adhesive	Color	Color
	Polyimide film	Silicone	Amber	Amber

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.*

		ASTM Test Method
Adhesion to Steel:	18 oz./in. width (20 N/100 mm)	D-3330, Method A
Tensile Strength at Break:	29 lbs./in. width (508 N/100 mm)	D-3759
Elongation at Break:	62%	D-3759
Backing Thickness:	1.0 mil (0.025 mm)	D-3652
Total Tape Thickness:	2.4 mils (0.061 mm)	D-3652
Temperature Use Range:	-100°F to 500°F (-73°C to 260°C)	

General Information

- At room temperature, the properties of polyimide and polyester films are similar. However, as the temperature increases, the properties of the polyimide film are less affected than polyester.
- Polyimide film does not soften at elevated temperatures, thus the film provides an excellent release surface at elevated temperatures.

Application Ideas

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



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Key Attributes	Features	Advantages	Benefits
	Polyimide film	Dimensionally stable at high temperatures	Higher productivity by reducing rework
		Flame retardant, chemical and radiation resistant	Protects surfaces, helping reduce replacement costs
	Silicone adhesive	High temperature performance reduces adhesive transfer	No cleaning required/helps increase productivity
	Moderate adhesion	Reduces adhesive transfer	No cleaning required/helps increase productivity

Shelf Life To obtain best performance, use this product within 18 months from date of manufacture and store under normal conditions of 60° to 80°F (15° to 27°C) and 40 to 50% R.H. in the original carton.

Available Sizes

Width	Length
1/4"	5yd., 36yd.
3/8"	
1/2"	
3/4"	
1"	
2"	
4"	
6"	

Available Core Sizes:

5 yd rolls: 1.5"
36 yd rolls: 3"

NOTE:

1. When applying pressure sensitive adhesive films to any surface, be sure that the surface is free from oil or other surface contaminants such as powder, dust, or release agents. Adhesive performance should be carefully checked when used on substrates containing plasticizers.
2. The above values are "Typical Values" which have a nominal range about them and are not intended for specification purposes