

3M

Polyimide Film Tape

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Technical Data

Product Description	A tape consisting of a Kapton® polyimide film and silicone adhesive designed for high temperature applications.				
Product Construction	Backing	Adhesive	Liner	Color	Standard roll Length
	Kapton® polyimide film	Silicone	None	Amber	36 yds (33m)
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:	22 oz./in. width (24 N/100mm)			D-3330
	Tensile Strength at Break:	33 lbs./in. width (578 N/100mm)			D-3759
	Elongation at Break:	62%			D-3759
	Backing Thickness:	1 mils (.03mm)			D-3652
	Total Tape Thickness:	2.7 mils (.07mm)			D-3652
	Temperature Use Range:	-100°F to 500°F (-73°C to 260°C)			
	General Information	- At room temperature, the properties of Kapton® and polyimide polyester films are similar, however, as the temperature increases or decreases, the properties of the Kapton® film are less affected than polyester. - Kapton® film does not soften at elevated temperatures, thus the film provides an excellent release surface at elevated temperatures.			
Shelf Life	To obtain best performance, use this product within 12 months from date of manufacture and store under normal conditions of 60° to 80°F (15° to 21°C) and 40 to 50% R.H. in the original carton.				
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.				
Features	Features	Advantages		Benefits	
	Thin Kapton® 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	
	High adhesive film bond	Reduces adhesive transfer		No cleaning required/helps increase productivity	

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This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.



Industrial Tape and Specialties Division

3M Center, Building 220-7W-03
St. Paul, MN 55144-1000
1 800 362 3550
1 800 223 7427 Fax on Demand
www.3M.com/industrialtape

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