3MPolyimide Film Tape 7418 / 7418L

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Temporary Techni	cal Data			Sep., 2005	
Product Description	A tape consisting of polyimide film and silicone adhesive designed for high temperature masking, resistance applications.				
Product Construction	Backing	Adhesive	Color	Liner	
	Polyimide Silicone Film		Amber	Polyester(7418L)	
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.				
			A	STM TEST METHOL	
	Adhesion to Steel	20 oz./in. width		D-3330	
	Tensile Strength at Break	20 lbs./in. width		D-3759	
	Elongation at Break	50 %		D-3759	
	Backing Thickness	0.025 mm		D-3652	
	Total Tape Thickness	0.063 mm		D-3652	
	Liner Version (7418L only)	0.050 mm		D-3652	
	Temperature Use Range	-50 to 260			
General Information	 High temperature masking and protection capability Film provides an excellent release surface at elevated temperatures. 				
Shelf Life	The recommended storage conditions are 60 to 80 (15 to 27) at relative humidity of 40 to 50%. Use within 18 months from date of manufacture.				
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. 				

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Features	FEATURES	ADVANTAGES	BENEFITS		
	Polyimide Film	Dimensionally stable at high temperatures	No rework – high productivity		
		Flame retardant, chemical and radiation resistant	Protects surfaces, helping reduce replacement costs		
	Silicone adhesive	High temperature performance reduces adhesive transfer	No cleaning required – helps increases productivity		
	Moderate adhesive to film bond	Reduces adhesive transfer	No cleaning required helps increase productivity		
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	This Industrial Tape and Specialtie	s Division product was manufactured under a	3M quality system registered to ISO		



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9002 standards.

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