3M Low Static Polyimide Film Tape 5419

Product Description	3M [™] Low Static Polyimide Film Tape 5419 is a translucent, polyimide film-backe silicone adhesive tape with unique and extremely low electrostatic discharge properties.				
Product Construction	Backing	Adhesi	ive Color	Standard Roll Lengt	
	Polyimide	Silicone	e Gold	36 yds. (33 m)	
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 Stee		20 oz./in. width (22 N/100 m		
	Tensile Strength at Break:		33 lbs./in. width (578 N/100 r		
	Elongation at Break:		60%	D-3759	
	Backing Thickness:		1.0 mil (0.03 mm)	D-3652	
	Total Tape Thickness:		2.7 mils (0.07 mm)	D-3652	
	Temperature Use Range:		-100° to 500°F (-73° to 260°)	()	
	Dielectric Strength:		7000 volts		
	Insulation Resistance: Static Charge: (measured at 50% RH, 70°F (21°C) in an ESD controlled environment)		>1*10 ⁶ ohms Removal from roll: <150 volt Removal from PWB: <50 vol		
Features	 Employs a proprietary technology that results in extremely low electrostatic discharge at unwind and removal from the PWB. Conventional polyimide tapes can typically generate over 10,000 volts during use which can damage board mounted electronic components. 3M tape 5419 overcomes this problem without any of the typical drawbacks of conventional "anti-static" or "static-free" tapes (e.g., variable adhesion and opaqueness). At room temperature the properties of polyimide and polyester film are similar. However, as the temperature increases or decreases, 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.
- Gold tab protection during wave solder of printed circuit boards.

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Application Ideas	• Mask for printed circuit boards during wave solder or solder dip process.			
	• Used as release surface in fabrication of parts cured at elevated temperatures.			
Storage	Store under normal conditions of 60° to 80° F (16° to 27° C) and 40 to 50% R.H. in the original carton.			
Shelf Life	To obtain best performance, use this product within 12 months from date of manufacture.			
Product Use	All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method of application.			
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