3M Cleanroom High Temperature ESD Tape 1258

Product Description	3M TM Cleanroom High Temperature ESD Tape 1258 is a translucent, polyimide film tape with silicone adhesive with unique and extremely low electrostatic discharge properties. For gold tab protection during wave soldering of printed circuit boards.					
Construction	Backing	Adhesive	Color	Standard Roll Siz	Standard Roll Sizes	
	Polyimide	Silicone	Gold	1/4 in., 1/2 in., 3/4 (6 mm, 13 mm, 19	in., 1 in. x 36 yds. mm, 25 mm x 33 m	
Typical Physical Properties and	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.					
Performance Characteristics	ASTM Test Method					
	Adhesion to Steel:		20 oz./in. width (22 N/100 mm)		D-3330	
	Tensile Strength at Break:		33 lbs./in. width ((578 N/100 mm)	D-3759	
	Elongation at Break:		60%		D-3759	
	Backing Thickness:		1.0 mil (.03 mm)		D-3652	
	Total Tape Thickness:		2.7 mils (.07 mm)	D-3652	
	Temperature Use Range:		-100°F to +500°F	= (-73°C to +260°C)		
	Dielectric Strength:		7000 volts			
	Insulation Resistance:		>1*10 ⁶ ohms			
	Static Charge:			% RH, 70°F (21°C) blled environment)		
	Removal from Roll:		<150 volts			
	Removal from PWB:		<50 volts			
General Information	Product is packaged in cleanroom.					
	• Rolls are wound onto plastic cores and bagged with Class 100 clean film.					
	 3M tape 1258 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 1258 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. 					

3M[™] Cleanroom High Temperature ESD Tape 1258

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.

Key Attributes	Features	Advantages	Benefits		
	Polyimide film	Dimensionally stable at high temperatures	Helps promote high productivity		
	Silicone adhesive	Flame retardanat and chemical resistant	Protects surfaces, helping reduce replacement		
	Low static	High temperature performance reduces adhesive transfer	Improves productivity		
		Virtually eliminates circuit board degradation due to electrostatic discharge	Reduces costly board waste due to component failure		
For Additional Information	To request additional product information or to arrange for sales assistance, call toll free 1-800-251-8634. Address correspondence to: 3M Electronics Markets Materials Division, Building 21-1W-10, 900 Bush Avenue, St. Paul, MN 55144-1000. Our fax number is 651-778-4244 or 1-877-369-2923. In Canada, phone: 1-800-634-3577. In Puerto Rico, phone: 1-787-750-3000. In Mexico, phone: 52-70-04-00.				
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3M Electronics 3M Center, Building 21-1W-10, 900 Bush Avenue St. Paul, MN 55144-1000 1-800-251-8634 phone 651-778-4244 fax www.3M.com/electronics

