3M Linered Low Static Polyimide Film Tape 5433

Product Description	5433 tape is a linered version of 3M 5419 tape. A translucent, polyimide film-backed silicone adhesive tape with unique and extremely low electrostatic discharge properties			
Typical Physical Properties and Performance Characteristics	Backing	Adhesive	Color	Standard Roll Lengt
	Polyimide	Silicone	Amber	36 yds. (33 m)
			used for specification pu	ASTM Test Metho
	Adhesion to Steel:	20 oz./in wid	dth (22N/100 mm)	D-3330
	Tensile Strength:		vidth (578 N/100 mm)	D-3759
	Tensile Strength: Elongation at Break:	60%		D-3759
	Elongation at Break: Backing Thickness:	60% 1 mil (.03 m	nm)	D-3759 D-3652
	Elongation at Break: Backing Thickness: Total Tape Thickness:	60% 1 mil (.03 m 2.7 mils (.07	nm) 7 mm)	D-3759 D-3652 D-3652
	Elongation at Break: Backing Thickness: Total Tape Thickness: Temperature Use Range	60% 1 mil (.03 m 2.7 mils (.07 -100°F. to +	nm)	D-3759 D-3652 D-3652
	Elongation at Break: Backing Thickness: Total Tape Thickness: Temperature Use Range Dielectric Strength:	60% 1 mil (.03 m 2.7 mils (.07 -100°F. to + 7000 volts	nm) 7 mm) 500°F. (-73°C. to +260°C.	D-3759 D-3652 D-3652
	Elongation at Break: Backing Thickness: Total Tape Thickness: Temperature Use Range Dielectric Strength: Insulation Resistance:	60% 1 mil (.03 m 2.7 mils (.07 -100°F. to + 7000 volts >1*106 ohm	nm) 7 mm) 500°F. (-73°C. to +260°C.	D-3759 D-3652 D-3652
	Elongation at Break: Backing Thickness: Total Tape Thickness: Temperature Use Range Dielectric Strength:	60% 1 mil (.03 m 2.7 mils (.07 -100°F. to + 7000 volts >1*106 ohm (measured	nm) 7 mm) 500°F. (-73°C. to +260°C.	D-3759 D-3652 D-3652
	Elongation at Break: Backing Thickness: Total Tape Thickness: Temperature Use Range Dielectric Strength: Insulation Resistance:	60% 1 mil (.03 m 2.7 mils (.07 -100°F. to + 7000 volts >1*106 ohm (measured	nm) 7 mm) 500°F. (-73°C. to +260°C. ns @ 50% RH, 70°F (21°C)	D-3759 D-3652 D-3652

General Information

- 5433 tape 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. 5433 tape 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.

Linered Low Static Polyimide Film Tape

5433

Application Ideas

- Mask for many printed circuit boards during wave solder or solder dip process.
- Release surface in fabrication of many parts cured at elevated temperatures.

Features	Advantages	Benefits
Polyimide film	• Dimensionally stable at high temperatures.	Helps promote high productivity.
	 Flame retardant and chemical resistant. 	• Protects surfaces, helping reduce replacement.
Silicone adhesive	 High temperature performance reduces adhesive transfer. 	 Helps promote high productivity.
• Low static	 Virtually eliminates circuit board degradation due to electrostatic discharge. 	 Helps reduce costly board waste due to component failure.
Unique release liner	• Easy release from silicone adhesive	• Capability to produce die cut parts

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-227-5085. Address correspondence to: 3M Industrial Tape and Specialties Division, 3M Center, Building 220-8E-04, St. Paul, MN 55133-3220. Our fax number is 612-733-9175. In Canada, phone: 1-519-451-2500. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-0400.

Important Notice

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M ITSD product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M ITSD product. Given the variety of factors that can affect the use and performance of a 3M ITSD product. Some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M ITSD product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.



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





Printed in U.S.A. ©3M 1995 70-0705-2035-1