



General Purpose Polyimide

Film Tape

7413•7413L (Linered)

FOD# 1901
page 1 of 3

Technical Data March 1, 2000

Product Description A tape consisting of polyimide film and silicone adhesive designed for high temperature masking, resistance applications.

Construction	Backing	Adhesive	Color	Liner	Standard Roll Length
	Polyimide Film	Silicone	Amber	Transparent	36 yds (33m) unlinered
				Polyester Film (7413L only)	144 yds (132m) linered

Typical Physical Properties and Performance Characteristics **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:	25 oz. In. width (27N/100 mm)	ASTM D-3330
Tensile Strength:	30 lbs/in. width (525N/ 100mm)	ASTM D-3759
Elongation at Break:	60%	ASTM D-3759
Backing Thickness:	1 mil (.03 mm)	ASTM D-3652
Total Tape Thickness: (excluding liner)	2.5 mils (.060 mm)	ASTM D-3652
Liner Thickness: (7413L only)	2 mil	
Liner Release: (7413L only)	8 gm/in	3MTM 1717 ¹
Temperature Use Range:	-100 to 500°F (-73 to 260°C)	
Note: 180 ° at 90 inches/min		

General Information

- High temperature capability
- Film provides an excellent release surface at elevated temperatures.

Shelf Life

- The recommended storage conditions are 60 ° to 80 ° (15 to 27 °C) at relative humidities of 40 to 50%. Use within 18 months from date of manufacture.

3M™ General Purpose Polyester Film Tape

7413-7413L(Linered)

FOD# 1901
page 2 of 3

- 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	Advantages	Benefits
Polyimide Flim	Dimensionally stable at high temperatures Flame retardant, chemical and radiation resistant	No rework – high productivity Protects surfaces, helping reduce replacement costs
Silicone adhesive	High temperature performance reduces adhesive transfer	No cleaning required – helps increases productivity
High adhesive to film bond	Reduces adhesive transfer	No cleaning required helps increase productivity

Technical Information and Data The technical information and data, recommendations, and other statements provided are based on tests or experience which 3M believes to be reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use Please remember that many factors can affect the use and performance of a 3M 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 product. Given the variety of factors that can 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.

Warranty and Limited Remedy The 3M product will be free from defects in material and manufacture for a period of one(1) year from the date of manufacture. 3M MAKES NO OTHER WARRANTIES, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE. User is responsible for determining whether the 3M product is fir for a particular purpose and suitable for user’s method of application. If the 3M product is proven to be defective within the warranty period stated above, your exclusive remedy and 3M’s sole obligation shall be, at 3M’s option, to replace or repair the 3M product or refund the purchase price of the 3M product.

Limitation of Remedies and Liability Except where prohibited by law, 3M will be liable for any loss or damage arising from the 3M product, whether direct, special, incidental, or consequential, regardless of the legal theory asserted, including, but not limited to, contract, warranty, negligence, or strict liability.



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

3M™ General Purpose Polyester Film Tape

7413-7413L(Linered)

FOD# 1901
page 3 of 3



Industrial Tape and Specialties Division

3M Center, Building 220-7W-03
St. Paul, MN 55144-1000
USA
1 800.362 3550
1 800.223.7427 Fax On Demand
www.3M.com

© 3M IPC 2000
All rights reserved 70-0709-4835-4 (POD) 05/00