



General Purpose Polyimide Film Tape

7413•7413L (Linered)

FOD# 1901
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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 Polyester Film (7413L only)	36 yds (33m) unlinered 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.

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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

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

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.

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ISO 9002

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

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