## **3M**

# General Purpose Polyimide Film Tape

7413T / 7413TL

Product Description	3M <sup>™</sup> General Purpose Polyimide Film Tape 7413T / 7413TL is a tape consisting of a polyimide film and silicone adhesive designed for solder masking or other ver high temperature applications.					
<b>Product Construction</b>	Backing Length	Adhesive	Liner	Color	Standard Roll	
	Polyimide film	Silicone	Polyester	Amber	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 Metho	
	Adhesion to Steel:		18 oz./in. width (20 N/100 mm)		D-3330, Method A	
	Tensile Strength at Break:		29 lbs./in. width (508 N/100 mm)		D-3759	
	Elongation at Break:		62%		D-3759	
	Backing Thickness:		1.0 mil (0.025 mm)		D-3652	
	Total Tape Thickness:		2.4 mils (0.061 mm)		D-3652	
	Liner Release Force: (7413TL only)		5 gm/in.		D-3330, Method [	
	Temperature Use Range:		-100°F to 500°F (-73°C to 260°C)			
General Information	<ul> <li>At room temperature, the properties of polyimide and polyester films are similar. However, as the temperature increases, the properties of the polyimide film are less affected than polyester.</li> <li>Polyimide film does not soften at elevated temperatures, thus the film provides an excellent release surface at elevated temperatures.</li> </ul>					

• Release surface in fabrication of parts cured at elevated temperatures.

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Key Attributes	Features	Advantages	Benefits			
	Polyimide film	Dimensionally stable at high temperatures	Higher productivity by reducing rework  Protects surfaces, helping reduce replacement costs  No cleaning required/helps increase productivity			
		Flame retardant, chemical and radiation resistant				
	Silicone adhesive	High temperature performance reduces adhesive transfer				
	Moderate adhesion	Reduces adhesive transfer	No cleaning required/helps increase productivity			
Shelf Life	To obtain best performance, use this product within 18 months from date of manufacture and store under normal conditions of 60° to 80°F (15° to 27°C) and					
	40 to 50% R.H. in the	he original carton.	,			
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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Warranty and	Unless stated otherwise i	n 3M's product literature, packaging inserts	or product packaging for individual			

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