

3M™ Heat Resistant Polyimide Tape 7414

Product Description

3M™ Heat Resistant Polyimide Tape 7414 is a single coated tape with 0.025 mm polyimide film backing and acrylic adhesive for high temperature applications.

Key Features

- Excellent abrasion resistance
- Very low coefficient of friction with self-lubricating characteristics
- Adhesive applied on back side shows strong adhesion to metals and plastics
- Leaves virtually no silicone residue
- Little or no cleaning needed
- Dimensionally stable high temperature backing

Product Construction/Material Description

Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

3M™ Heat Resistant Polyimide Tape 7414	
Property	Value
Color	Amber
Backing	Polyimide film
Adhesive	Thermally cross-linkable acrylic adhesive

Applications

- Masking or protecting residue sensitive areas on printed circuit boards during high temperature operations such as wave soldering and solder reflow.

Typical Physical Properties and Performance Characteristics

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3M™ Heat Resistant Polyimide Tape 7414		
Property	Method	Value
Adhesion to Copper	D-3330, 90° Peel	7.7 oz/in width (8.4 N/100 mm)
Backing Thickness	D-3652	1.0 mil (0.025 mm)
Total Tape Thickness	D-3652	1.8 mil (0.046 mm)
Temperature Use Range*	-	2 min at 260°C

* Temperature use range is defined as the maximum time at the stated temperature after which the 3M tape 7414 may be removed cleanly, without staining, from a copper substrate.

3M™ Heat Resistive Polyimide Tape 7414

Storage and Shelf Life

The shelf life of 3M™ Heat Resistive Polyimide Tape 7414 is 12 months from the date of manufacture when stored in the original packaging and stored under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity.

Certificate of Analysis (COA)

The 3M Certificate of Analysis (COA) for this product is established when the product is manufactured and deemed commercially available from 3M. The COA contains the 3M test methods, specifications limits and test results for the product's performance attributes that the product will be supplied against. Contact your local 3M representative for this product's COA.

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Regulatory: For regulatory information about this product, contact your 3M representative.

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