3M[™] Non-Silicone, Acrylic High Temperature Masking Tape 7414

Product Description

3M[™] Non-Silicone, Acrylic High Temperature Masking Tape 7414 is a single coated tape with 0.025 mm polyimide film backing and acrylic adhesive for high temperature applications.

Features and Benefits

- 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
- Polyethylene tape core instead of cardboard

Product Construction/Material Description

	3M™ Non-Silicone, Acrylic High Temperature Masking Tape 7414	
Color	Amber	
Backing	Polyimide	
Adhesive	Acrylic	
Standard Roll Length	33 m (36 yd)	

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

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

	3M™ Non-Silicone, Acrylic High Temperature Masking 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.

Storage and Shelf Life

To obtain best performance, use 3M[™] Non-Silicone, Acrylic High Temperature Masking Tape 7414 within 6 months from date of delivery and store under normal conditions of 16° to 27°C (60° to 80°F) and 40 to 60% relative humidity in the original carton.

Regulatory

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

Technical Information

The technical information, recommendations and other statements contained in this document are based upon tests or experience that 3M believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use

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