

3M™ Heat Resistive Polyimide Tape 7414/7414L

Product Description

3M™ Heat Resistive Polyimide Tape 7414/7414L are a heat resistive polyimide process tape. 3M tape 7414/7414L use specially designed acrylic adhesive polymer, which enables to be peeled off after high temperature processes.

Key Features

- Low initial adhesion and good wettability
- No/less adhesive residue on various substrates

3M™ Heat Resistive Polyimide Tape 7414/7414L

Base polyimide film: 25µm
Specially designed acrylic adhesive: 22µm
PET separator: 50µm (only for 7414L)

Note: 7414 is no PET separator version of 7414L

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 Resistive Polyimide Tape 7414/7414L	
Property	Value
Color	Amber
Backing	Polyimide film
Adhesive	Specially designed acrylic adhesive
Separator	PET film base separator, no separator for 7414

Applications

- Process tape to transfer small parts in high temperature processes, masking, protection, temporary bonding

3M™ Heat Resistive Polyimide Tape 7414/7414L

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™ Heat resistive polyimide tape 7414/7414L		
Property	Test method	Value
Adhesion to Stainless steel	Based on JIS 0237	
23°C / 30 min	Peel angle: 180 degrees	0.5 [N/cm] No residue
After 210°C / 60 min	Peel rate: 300 mm/min	1.2 [N/cm] No residue
After 260°C / 10 min		1.1 [N/cm] No residue
Adhesion to Copper	Based on JIS 0237	
23°C / 30 min	Peel angle: 180 degrees	0.3 [N/cm] No residue
After 210°C / 60 min	Peel rate: 300 mm/min	0.8 [N/cm] No residue
After 260°C / 10 min		0.6 [N/cm] No residue
Adhesion to Glass epoxy	Based on JIS 0237	
23°C / 30 min	Peel angle: 180 degrees	0.6 [N/cm] No residue
After 210°C / 60 min	Peel rate: 300 mm/min	1.2 [N/cm] No residue
After 260°C / 10 min		1.2 [N/cm] No residue

Storage and Shelf Life

The shelf life of 3M™ Heat Resistive Polyimide Tape 7414/7414L are 14 months from the date of manufacture when stored in the original packaging and stored at 22°C (71°F) and 50% relative humidity.

3M™ Heat Resistive Polyimide Tape 7414/7414L

Safety Data Sheet: Consult Safety Data Sheet before use.

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

Technical Information: The technical information, guidance, and other statements contained in this document or otherwise provided by 3M are based upon records, tests, or experience that 3M believes to be reliable, but the accuracy, completeness, and representative nature of such information is not guaranteed. Such information is intended for people with knowledge and technical skills sufficient to assess and apply their own informed judgment to the information. No license under any 3M or third party intellectual property rights is granted or implied with this information.

Product Use: Many factors beyond 3M's control and uniquely within user's knowledge and control can affect the use and performance of a 3M product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a 3M product in accordance with all applicable instructions and with appropriate safety equipment, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.

Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product packaging or product literature (in which case such warranty governs), 3M warrants that each 3M product meets the applicable 3M product specification at the time 3M ships the product. **3M MAKES NO OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ANY IMPLIED WARRANTY OR CONDITION ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE.** If a 3M product does not conform to this warranty, then the sole and exclusive remedy is, at 3M's option, replacement or repair of the 3M product or refund of the purchase price.

Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by applicable law, 3M will not be liable for any loss or damage arising from or related to the 3M product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.

Disclaimer: For industrial use only. Not intended, labeled or packaged for consumer sale or use.



Electronics Materials Solutions Division
3M Center, Building 224-3N-11
St. Paul, MN 55144-1000
1-800-251-8634 phone
651-778-4244 fax
www.3M.com/electronics

3M is a trademark of 3M Company.
Please recycle.
©3M 2022. All rights reserved.
60-5005-0253-3