

3M™ Heat Resistive Polyimide Tape 7418S-22

Product Description

3M™ Heat Resistive Polyimide Tape 7418S-22 is a heat resistive polyimide process tape. 3M tape 7418S-22 consists of thermally cross-linkable acrylic copolymer to provide good initial adhesion and to help prevent unexpected adhesion build up even after high temperature processes.

Key Features

- High initial adhesion and good wettability
- Less adhesion build-up after high temperature processes

3M™ Heat Resistive Polyimide Tape 7418S-22

Base polyimide film: 25µm
Thermally cross-linkable adhesive: 22µm
Silicone treated PET separator: 38µm

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 7418S-22	
Property	Value
Color	Amber
Backing	Polyimide film
Adhesive	Thermally cross-linkable acrylic adhesive
Separator	Silicone treated PET film

Applications

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

3M™ Heat Resistive Polyimide Tape 7418S-22

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 7418S-22		
Property	Test method	Value
Adhesion to Stainless steel 23°C / 30 min After 210°C / 60 min After 260°C / 10 min	Based on JIS 0237 Peel angle: 180 degrees Peel rate: 300 mm/min	1.1 [N/cm] No residue 2.0 [N/cm] No residue 1.6 [N/cm] No residue
Adhesion to Copper 23°C / 30 min After 210°C / 60 min After 260°C / 10 min	Based on JIS 0237 Peel angle: 180 degrees Peel rate: 300 mm/min	1.0 [N/cm] No residue 1.2 [N/cm] No residue 1.3 [N/cm] No residue
Adhesion to Glass epoxy 23°C / 30 min After 210°C / 60 min After 260°C / 10 min	Based on JIS 0237 Peel angle: 180 degrees Peel rate: 300 mm/min	1.1 [N/cm] No residue 2.4 [N/cm] No residue 2.7 [N/cm] No residue

Storage and Shelf Life

The shelf life of 3M™ Heat Resistive Polyimide Tape 7418S-22 is 24 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 7418S-22

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