

malcom

SOLDER-PASTE TACKINESS TESTER

TK-1

Prevent Component Dropping



TK-1 Solder-Paste Tackiness Tester

Prevent Component Dropping

Features and Benefits

- Quantifies solder-paste tackiness
- Determines component drop-time, thus reducing costly rework
- Three testing methods available
- User-variable measurement conditions (time, preload, depth and speed)
- Digital display of measured tackiness, real preload and real insertion depth

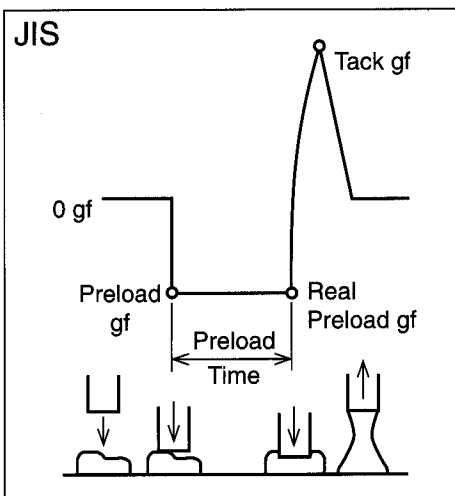
Three Methods of Measurement

Proper measurement of the true tackiness of a solder paste requires a testing sequence which closely simulates the operation of a chip mounter. The testing method should be performed (1) at a high speed, (2) with continuous loading and (3) for a short duration. The JIS standard method for tackiness testing does just that. To maintain worldwide compliance, the TK-1 also executes the IPC standard test method for tackiness. Additionally, Malcom's own Insertion Depth Method provides an alternative testing procedure to complement the others.

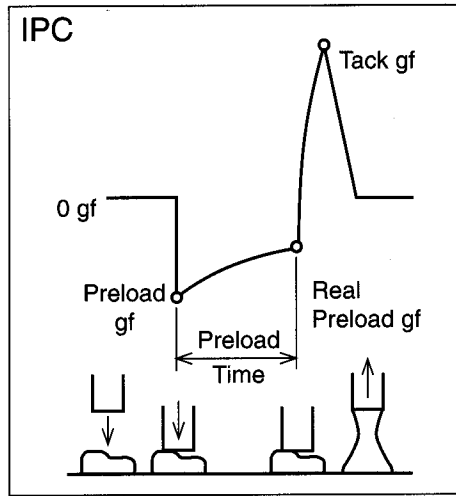
Specifications

| | |
|---------------------|---|
| Sensor range | 0 ~ 500 gf |
| Sensor resolution | 1 gf |
| Measurement methods | Continuous preload, JIS Point preload, IPC Insertion depth |
| Parameters measured | Tackiness: 0 ~ 500 gf Preload: 0 ~ 500 gf Insert depth: 0 ~ 200 μ m |
| Preset ranges | Preload: 20 ~ 500 gf Time: 0.1 ~ 99.9 sec Speed: 0.1 ~ 10.0 mm/sec 0.2 ~ 9.9 mm/min Depth: 20 ~ 200 μ m |
| Outputs | Analog: 1 gf/10mV Digital: RS-232C |
| Accessories | Hand printer with 0.2 mm mask Test piece, 5.1-mm dia. probe Control and data analysis software |

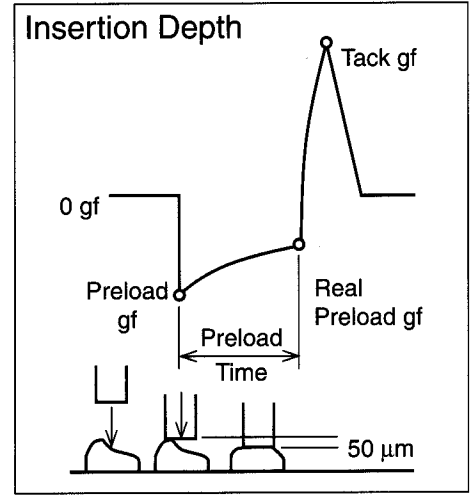
Specifications subject to change without notice.



| | |
|------------------|-------------|
| Preload time | 0.2 seconds |
| Preload set | 50 gf |
| Insertion speed | 2.0 mm/sec |
| Retraction speed | 10 mm/sec |



| | |
|------------------|-------------|
| Preload time | 5.0 seconds |
| Preload set | 300 gf |
| Insertion speed | 2.5 mm/min |
| Retraction speed | 2.5 mm/min |



| | |
|------------------|-------------|
| Preload time | 0.2 seconds |
| Preload set | 10 gf |
| Insertion depth | 50 μ m |
| Retraction speed | 10 mm/sec |

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REPRESENTATIVE

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