

## GOTECH "the best partner" to raise your competition

### HV-2000-M3W 電子式熱變形溫度試驗機

#### HDT/VICAT TESTER

ASTM-D648, D1525, ISO-75,306, DIN-53461, 53460

本試驗機用於測試塑料試片加荷重(三點加荷重下的彎曲應力)的變形溫度(HDT變形溫度的測定)以及針柱穿陷時的溫度(Vicat軟化溫度測試法)。

HDT熱變形溫度的測定法：原理為一標準試樣在一固定荷重下，在平放位置(首選)或側向位置，承受三點彎曲而產生一曲折應力，溫度以一均勻速率(120°C/Hr)上升，測量達規定變形量時之溫度。

VICAT軟化溫度測試法：在均勻升溫速率(50°C或120°C/Hr)及規定的荷重下，使截面積為1mm<sup>2</sup>的平頭針柱穿陷試件時的溫度。

The tester is used to test the deformed temperature of plastic specimen under load (HDT test) and to test the temperature when the needle pieces a certain depth of the plastic specimen under specified condition. (VICAT test).

HDT test: place the specimen under certain three-point load with temperature rising at a uniform speed (120 °C/hr). Measure the temperature at which a specified deformation occurs.

VICAT test: place the specimen under certain load with the temperature rising at a uniform speed (50 °C or 120 °C/hr). Measure the temperature when the needle with 1 square mm cross-area pierces a certain depth of the plastic specimen.

|                                     |                                               |
|-------------------------------------|-----------------------------------------------|
| 試件 Sampling                         | 3組 sets                                       |
| 變形顯示 Deformation display            | 數位千分表 Digital micrometer                      |
| 試驗方式 Testing method                 | HDT/VICAT                                     |
| 溫度範圍 Temperature range              | 常溫 Room temp.~300 °C                          |
| 溫度精度 Temp. Accuracy                 | ±0.5 °C                                       |
| 升溫速度 Increasing rate of temperature | 2 ± 0.2 °C / min or 50 ± 5 °C / hr            |
| 冷卻方式 Cooling method                 | 水冷式 Water cooling                             |
| 體積 Dimension (W×D×H)                | 113×59×75 cm                                  |
| 重量 Weight                           | 225 kg                                        |
| 電源 Power                            | 1±, AC 220V, 50/60Hz(依國別或指定Specified by user) |



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